

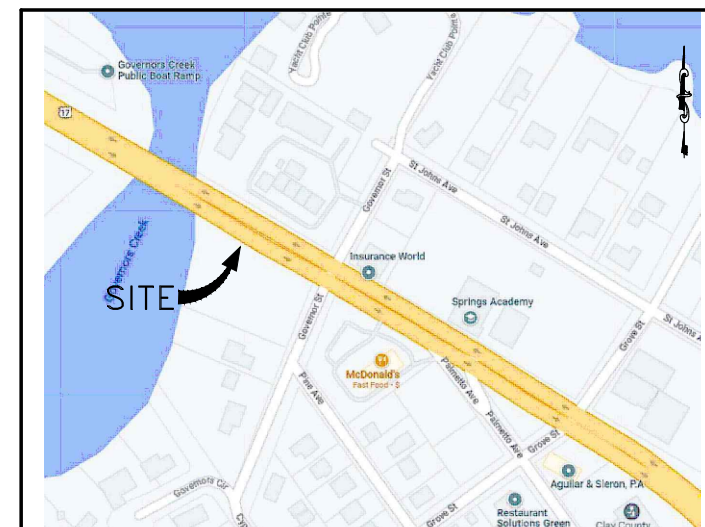
SITE DEVELOPMENT PLANS
FOR
*KNIGHT CENTER
PROPOSED OFFICE*

1201 ORANGE AVE.
GREEN COVE SPRINGS, FLORIDA

PREPARED FOR:
CYPRESS MANAGEMENT AND DESIGN

P.O.BOX 8880
FLEMING ISLAND, FL. 32006

(904) 759-9576 / SITEOPT@BELLSOUTH.NET



VICINITY MAP

SHEET INDEX

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COLIN D. GROFF, P.E.
REG. NO. 47609

NO.	REVISIONS	BY	DATE

BLACK CREEK ENGINEERING, INC.
1735 HAGANS RIDGE COURT
GREEN COVE SPRINGS, FLORIDA 32043
PHONE (904) 759-8830
AUTHORIZATION NO. 27946

KNIGHT CENTER
1201 ORANGE AVE, GREEN COVE SPRINGS
CYPRESS MANAGEMENT AND DESIGN
COVER

JOB NO. : 23-004
DATE: 5/1/2023
DRAWN BY : CdG
CHECKED BY : CdG
APPROVED BY : CdG
SCALE : NTS

SHEET
1

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY STANDARDS, (LATEST REVISION) AND ALL CURRENT CITY STANDARD DETAILS.
- ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO CONSTRUCTION OF THE PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
- ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND THE CITY FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND THE CITY.
- ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) UNITED STATES COAST AND GEODETIC SURVEY (U.S.C. & G.S.)
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT.
- THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
- "AS-BUILT" DRAWINGS - AS-BUILTS TO THE CITY AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION, AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY STANDARDS AND SPECIFICATIONS AND FDEP REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRATOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
- ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- CONTACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
- ALL DEBRIS RESULTING FROM ALL SITE WORK ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR OWNER.
- ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- BURNING OF TREES, BRUSH, AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED BY AND COORDINATED WITH THE CITY OF GREEN COVE SPRINGS CITY MANAGER.
- ROADWAY UNDERDRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BE THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARTION OF THE ROADWAY SUB-BASE.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS NOTED OTHERWISE ON PLANS.
- THIS PROPERTY IS SITUATED IN FLOOD ZONE: X

UTILITY CONTRACTOR NOTES

- THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS TO THE ENGINEER FOR REVIEW AND APPROVAL, AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE, FITTINGS, APPURTENANCES OR STRUCTURES. 3. UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED. 4. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT. 5. ALL WATER AND SEWER CONSTRUCTION WITHIN THE CITY SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.

- ALL WATER LINES CROSSING SANITARY AND STORM SEWER LINES, AS WILL VALVES AND FITTINGS, MUST HAVE MINIMUM 18" VERTICAL SEPARATION. IF THIS CANNOT BE OBTAINED, THE WATER MAIN MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF 10' EITHER SIDE OF SANITARY OR STORM SEWER MAIN, OR INSTALL WATER MAIN IN D.I. SLEEVE MIN. LENGTH 20' CENTERED, ENDS OF SLEEVE TO BE GROUT FILLED, IN EITHER CASE, MINIMUM OF 6" OF VERTICAL SEPARATION SHALL BE MAINTAINED. 7. RESTRAINING JOINTS ARE REQUIRED IN ACCORDANCE WITH UTILITY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES. 8. UNLESS OTHERWISE NOTED, ALL WATER MAIN 2" OR SMALLER SHALL BE SCHEDULE 80 PVC AND N.F.S.P.W. RATED 9. THE CONTRACTOR SHALL OBTAIN ALL PERMITS TO COMPLETE THE CONSTRUCTION.

GENERAL PAVING AND DRAINAGE NOTES

- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED AS PER SPECIFICATIONS. ALL DISTURBED AREAS IN PUBLIC ROW SHALL BE SODDED.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- LOCATION, EXISTENCE OR NON-EXISTENCE OF ANY UTILITY DOES NOT CONSTITUTE RESPONSIBILITY BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNER PRIOR TO CONSTRUCTION FOR VERIFICATION AND LOCATION OF ANY UTILITY.
- GRADES SHOWN ON PLANS ARE FINISHED GRADES UNLESS OTHERWISE NOTED.
- SHOULD THE SURFACE OR SUB-SURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THESE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ALL ELEVATIONS AND GRADES REFER TO NATIONAL GEODETIC SURVEY DATUM.
- CARE SHALL BE EXERCISED TO AVOID DAMAGE TO EXISTING ABOVE AND IN-GROUND UTILITIES INCLUDING TELEPHONE, WATER, CABLE, ELECTRIC AND SEWER LINES.
- CONTRACTOR SHALL PROVIDE DRAINAGE AS-BUILT DRAWINGS BY A REGISTERED SURVEYOR TO INCLUDE THE FOLLOWING:
A) SIDE GRADES B) PIPE INVERTS C) DRIVEWAY GRADES
- SOD ALL SIDE SLOPES GREATER THAN 4:1.
- INSTALL CONSTRUCTION SIGNS & EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION.

GENERAL EROSION CONTROL NOTES:

- THESE PLANS INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE FDEP SPECIFICATIONS.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS, IF REQUIRED. EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS, IF REQUIRED.
- DURING CONSTRUCTION, ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE PREVENTION OF DOWNSTREAM/TURBIDITY/SILTATION THROUGH THE USE OF HAY BALES, SCREENS, SILTATION BASINS, CHEMICAL FLOCCULATION AND/OR ANY OTHER SUITABLE MEANS REQUIRED TO MEET FLORIDA STREAM STANDARDS. SEED AND MULCH ALL DISTURBED AREAS, SOD AS REQUIRED TO CONTROL EROSION THROUGH FINAL INSPECTION AND TO PRODUCE A UNIFORM STAND OF GRASS THROUGHOUT.

GENERAL AS-BUILT REQUIREMENTS

- FIVE DAYS BEFORE THE FINAL INSPECTION, 2 SETS OF SIGNED AND SEALED AS-BUILTS AND 1 ELECTRONIC COPY ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THEY FOLLOWING ARE THE GENERAL AS BUILT REQUIREMENTS:
2. AS-BUILTS SHALL BE SUBMITTED ON THE APPROVED GRADING/DRAINAGE PLAN PROVIDED BY THE ENGINEER OF RECORD FOR THE PROJECT.
3. ALL DRAINAGE STRUCTURES OUTSIDE OF THE ROADWAY SHALL BE LOCATED FROM BACK OF CURB AND THE PROPERTY LINE ADJACENT TO THE STRUCTURE.
4. ALL UNDERDRAIN AND STORM DRAIN LINES SHALL HAVE THE ELEVATIONS, SIZES, SLOPES, AND LENGTHS VERIFIED BOTH INSIDE AND OUTSIDE OF THE ROADWAY.
5. ALL PONDS SHALL BE CROSS-SECTIONED SHOWING THE BOTTOM, MID SLOPE, NORMAL WATER LINE AS DEPICTED BY EXISTING CONDITIONS AND TOP OF BANK.
6. ALL SWALES SHALL BE LOCATED AND CROSS-SECTIONED EVERY 25'. ELEVATIONS ARE TO BE BOTH TOP OF SLOPE AND CENTERLINE.
7. THE ROADWAY SHALL BE CROSS-SECTIONED EVERY 100' AND 50' ON ALL CURVES. THE CROSS SECTIONS SHALL INCLUDE ALL PC'S, PVI'S, PT'S AND CURB RETURNS.
8. ALL CUL-DE-SAC CURBING SHALL BE SURVEYED EVERY 25' AROUND STARTING AT THE BACK OF THE CUL-DE-SAC.
9. A BENCHMARK SHALL BE LOCATED ON EACH SHEET
10. AS-BUILTS SHALL BE SIGNED IN BY THE COMPANY DROPPING THEM OFF. IF REVISIONS ARE REQUIRED, THAT COMPANY WILL BE NOTIFIED TO PICK THEM UP FOR REVISION. ONCE REVISIONS HAVE BEEN MADE, THE DOCUMENTS SHALL BE SIGNED BACK IN.
11. SUBMIT ONE DIGITAL AS-BUILT AS A DGN OR DXF FILE (STANDARD DIGITAL EXCHANGE FORMAT AUTOCAD ETC.) IN CD OR DVD.
12. AS-BUILT MUST BE IN FLORIDA STATE PLANE COORDINATE SYSTEM USING THE NAD 83 DATUM AT A 1: 1 DRAWING SCALE IN US SURVEY FEET
PROJECTED COORDINATE SYSTEM: NAD_1983_STATEPLANE_FLORIDA_EAST_FIPS_9901_FEET
PROJECTION: TRANSVERSE_MERCATOR FALSE_BASTING: 656166.86686667 FALSE_NORTHING: 0.00000000
CENTRAL_MERIDIAN: -81.00000000 SCALE_FACTOR: 0.99994118
LATITUDE_OF_ORIGIN: 24.33333333 LINEAR_UNIT: FOOT_US (0.304801) GEOGRAPHIC_COORDINATE_SYSTEM: GCS_NORTH_AMERICAN_1983
DATUM: D_NORTH_AMERICAN_1983 PRIME_MERIDIAN: 0
STATE_PLANE_COORDINATES FOR AT LEAST TWO BOUNDARY CORNERS OF PROPOSED AS-BUILT DRAWING MUST BE SHOWN. THESE COORDINATES SHALL BE DERIVED FROM FIELD MEASUREMENTS IN CONFORMITY WITH F.S.CHAPTER 472 AND F.A.C. RULE 61G17-6.005(2) WHICH REFERENCES 61G17-6.003(1). FURTHER SUB-SECTIONS IN 61G17-6.003 WHICH APPLY ARE (L),(A),(B) AND (E). SURVEY ACCURATE COORDINATE DATA IS REQUIRED PREMISED UPON THE INTENDED USE (E RESOURCE GRADE DATA IS NOT ACCEPTABLE) THE INTENDED USE OF THESE COORDINATES IS FOR GIS BASE MAPPING PURPOSES.
- ADJOINING/EXISTING STREETS MUST BE CLEARLY SHOWN AND LABELED.
- NO EXTERNAL REFERENCE FILES ATTACHED
- RECORDED SUBDIVISION NAME AS PER PLAT SHALL BE LABELED ON THE AS-BUILT.
- ALL STORM SEWERS, PONDS AND OUTFALL AND STRUCTURES ARE TO BE CLEARLY LABELED.
- THE ENGINEER WILL BE RESPONSIBLE FOR ANY ROTATION AND/OR TRANSLATION, BASE ON THE COORDINATE DATA SUBMITTED.

GENERAL FIRE DEPARTMENT REQUIREMENTS

Call Fire Prevention@ (904) 284-7703 at least Forty Eight hours in advance for all Inspections

Fire protection line shall be install with a license Fire Protection Contractor.

Fire department connection for fire sprinkler system shall not be located on the building and shall be 5' Storz Connection.

The Back Flow Preventor Shall Be Protected from Freezing Weather.

Fire Protection Line shall be installed as per NFPA 24.

All joints accessories to Fire Protection Line shall be thoroughly coated with an Asphalt or other Corrosion retarding material after installation NFPA 24- 10.3.6.2

Notify Fire Prevention for inspection after completion of assembly of Fire Protection Line in trench

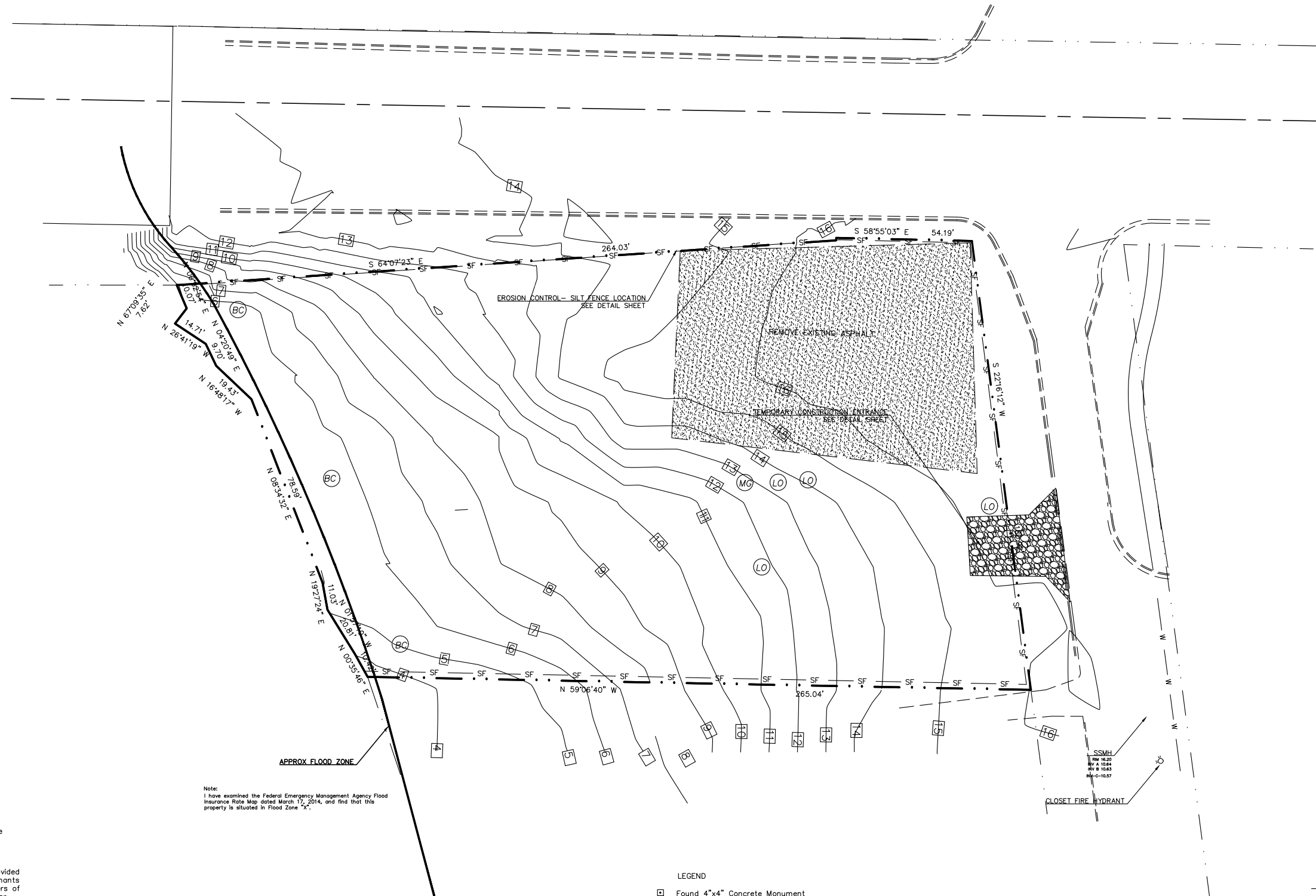
Fire Protection Line installing Contractor shall have Contractors Material and Test Certificate(s) readily available after completion of Fire Protection Line Hydrostatic Test NFPA 24-10.10.2

Fire Prevention shall witness flushing of Fire Protection Line

Clearances of 7½ ft. in front of and to the sides of the fire hydrant and fire protection appliance, and with 4ft. to the rear of the hydrant and fire protection appliance.

Contact Fire Prevention Bureau for permit card.

JOB NO. : 23-004		DATE: 5/1/2023		DRAWN BY : C4G		CHECKED BY : C4G		APPROVED BY : C4G		SCALE : NTS	
KNIGHT CENTER		1201 ORANGE AVE, GREEN COVE SPRINGS		CYPRESS MANAGEMENT AND DESIGN		GENERAL NOTES		BLACK CREEK ENGINEERING, INC		1735 HAGANS RIDGE COURT GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830	
SHEET		2		NO.		REVISIONS		BY		DATE	
COLIN D. GROFF, P.E.		REG. NO. 47609		AUTHORIZATION NO. 27946		NOT ISSUED FOR CONSTRUCTION					



GENERAL NOTES

- Bearings shown hereon are based on the
- This survey was based on documents provided and was not abstracted for easements, covenants or restrictions, title, overlaps, or other matters of record, or matters unrecorded by this surveyor.
- Underground utilities serving or crossing this property have not been located or shown.
- Easements shown hereon are for drainage and utilities unless noted otherwise.
- This survey depicts visible improvements only; no underground improvements or footings were located.

Note:
I have examined the Federal Emergency Management Agency Flood Insurance Rate Map dated March 17, 2014, and find that this property is situated in Flood Zone "X".

- LEGEND**
- Found 4"x4" Concrete Monument
 - Found Iron Pipe (as noted)
 - Set 1/2" Iron Pipe (LB 1381)
 - x- Fence
 - Powerline/Pole and Anchor
 - Telephone Line
 - Cable T/V Line
 - Concrete Air Conditioner Pad
 - Concrete Elec. Transformer Pad

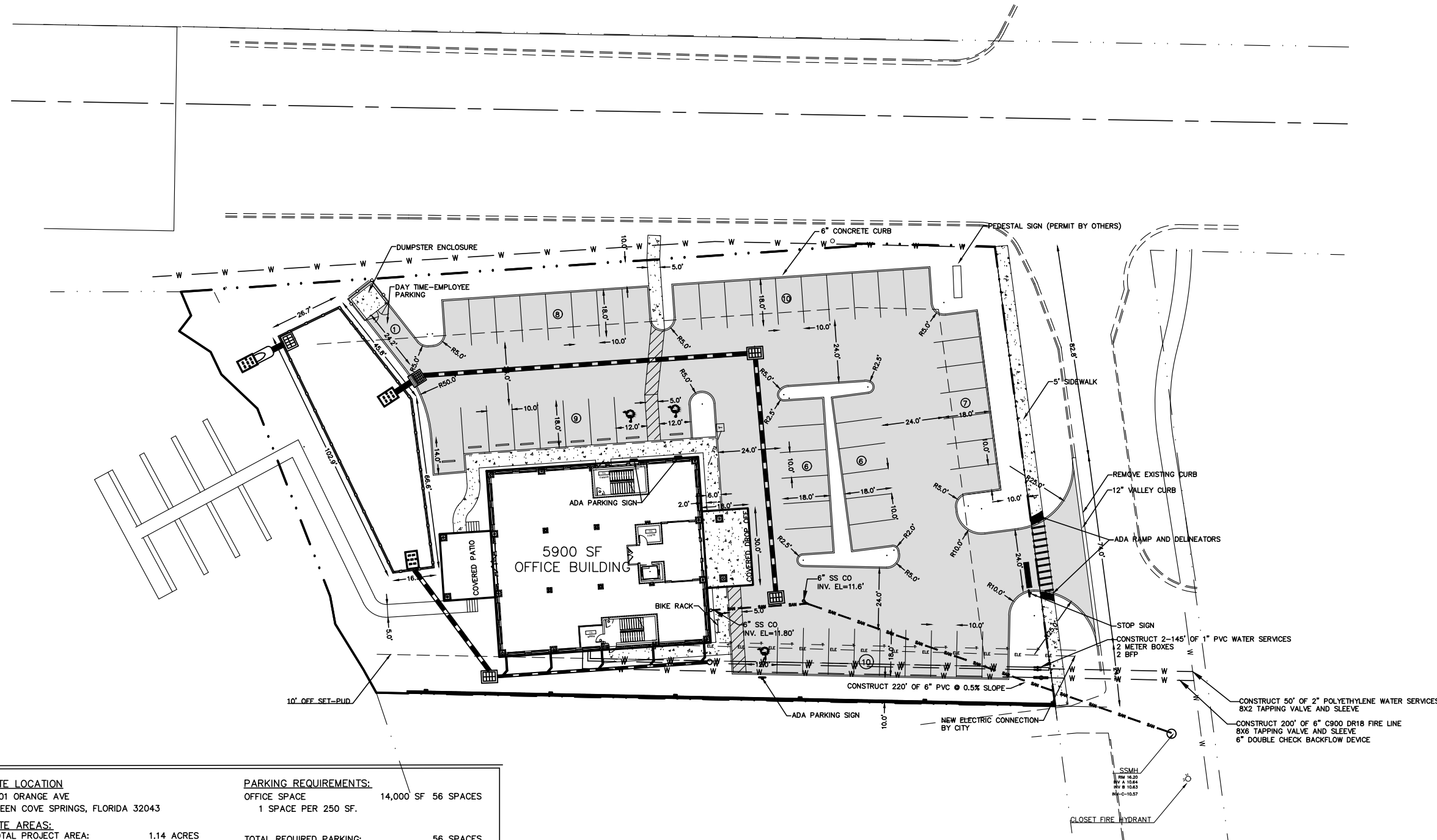
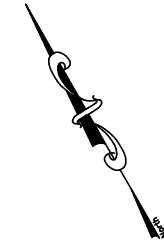
Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.

Harold T. Eiland
License No. LS 2518

Eiland & Associates, Inc.
Professional Surveyors & Mappers
Certificate of Authorization No. LB 1381
615 Blanding Boulevard
Orange Park, Florida 32073
Telephone 904-272-1000

FF No. FF Field Book B JNbb No.

<p>Black Creek Engineering, Inc. 1735 HAGANS RIDGE COURT GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830</p>	<p>KNIGHT CENTER 1203 ORANGE AVE., GREEN COVE SPRINGS CYPRESS MANAGEMENT AND DESIGN</p>	<p>EXISTING CONDITIONS & SWPPP</p>	<p>COLIN D. GROFF, P.E. REG. NO. 47609</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISIONS</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	REVISIONS	BY	DATE																																									<p>Black Creek Engineering, Inc. 1735 HAGANS RIDGE COURT GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830</p>
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<p>JOB NO. : 23-004 DATE: 5/1/2023 DRAWN BY : CdG CHECKED BY : CdG APPROVED BY : CdG SCALE : 1"=30'</p>	<p>SHEET 3</p>		<p>NOT ISSUED FOR CONSTRUCTION</p>																																														



SITE INFORMATION

OWNER
 KNIGHT CENTER, LLC
 687 ARTHUR MOORE DRIVE
 ORANGE PARK, FLORIDA 32067
 PHONE: (904) 282-7590

AGENT
 BLACK CREEK ENGINEERING, INC.
 3900 PASO FINO ROAD
 GREEN COVE SPRINGS, FL 32043
 PHONE: (904) 759-8930

SITE LOCATION

1201 ORANGE AVE
 GREEN COVE SPRINGS, FLORIDA 32043

SITE AREAS:

TOTAL PROJECT AREA:	1.14 ACRES (49,549 SF)
BUILDING AREA:	5,700 SF
FLOOR AREA RATIO:	11.90%
NEW PAVEMENT AREA:	22,061 SF
NEW SIDEWALK AREA:	5,400 SF
OPEN SPACE:	16,388 SF
% PERVIOUS:	33.0%
% PRE-DEV IMPERVIOUS:	1.0%
% POST-DEV IMPERVIOUS:	67.0%

PARKING REQUIREMENTS:

OFFICE SPACE 14,000 SF 56 SPACES
 1 SPACE PER 250 SF.

TOTAL REQUIRED PARKING:	56 SPACES
PROPOSED PARKING:	53 SPACES
TOTAL HANDICAP PARKING:	3 SPACES
TOTAL PARKING PROVIDED:	56 SPACES

JOB NO. : 23-004	DATE: 5/1/2023	DRAWN BY : C4G	CHECKED BY : C4G	APPROVED BY : C4G	SCALE : 1"=30'
SHEET					
4					
NOT ISSUED FOR CONSTRUCTION					

KNIGHT CENTER
 1201 ORANGE AVE., GREEN COVE SPRINGS
 CYPRESS MANAGEMENT AND DESIGN

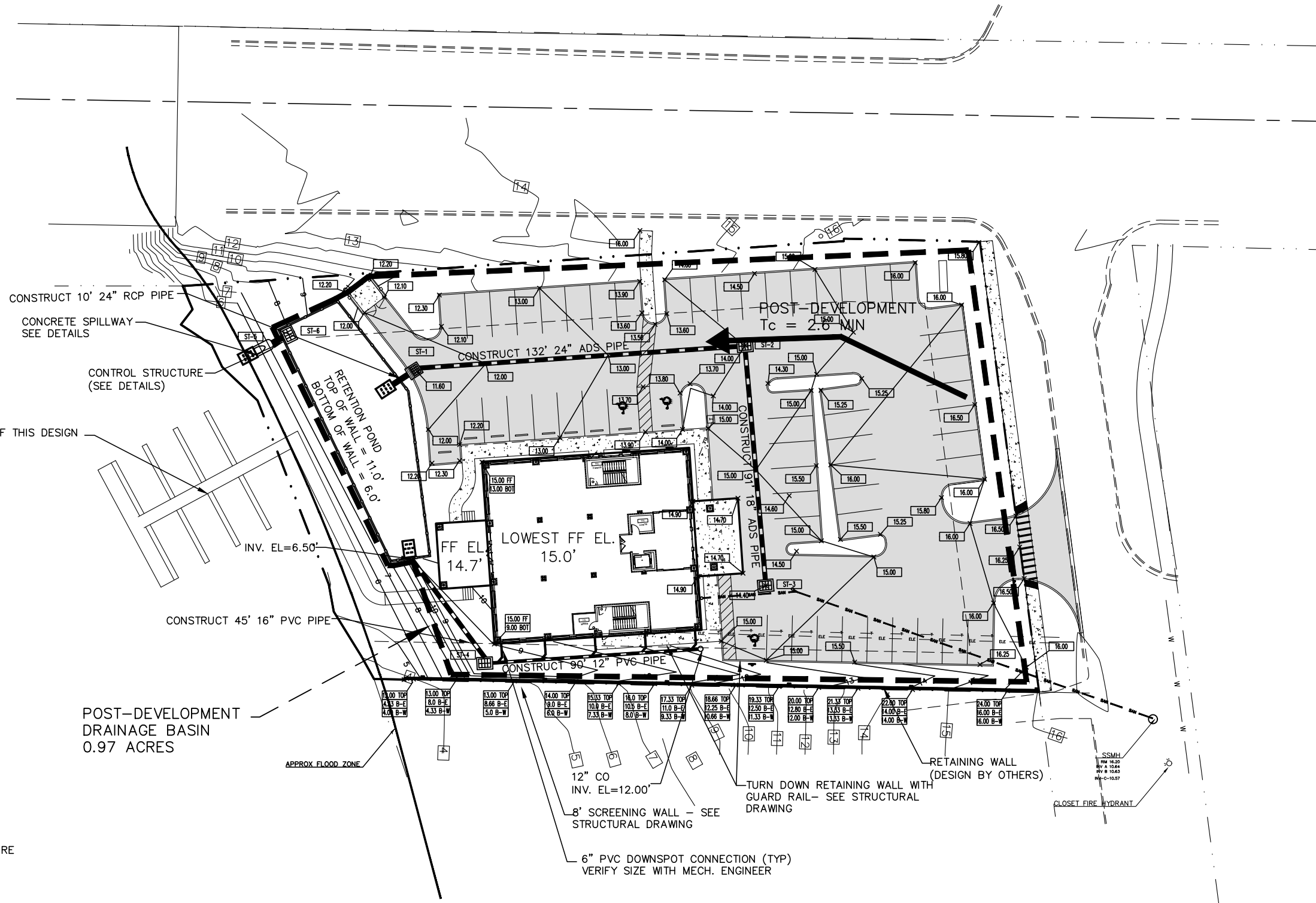
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ST-1
 FDOT TYPE C INLET
 TOP EL.=11.60
 S. INV. = 7.10
 N. INV. = 7.20

ST-2
 FDOT TYPE C INLET
 TOP EL.=14.00
 S. INV. = 7.70
 W. INV. = 8.30

ST-3
 FDOT TYPE C INLET
 TOP EL.=14.40
 E. INV. = 8.80
 W. INV. = 9.30

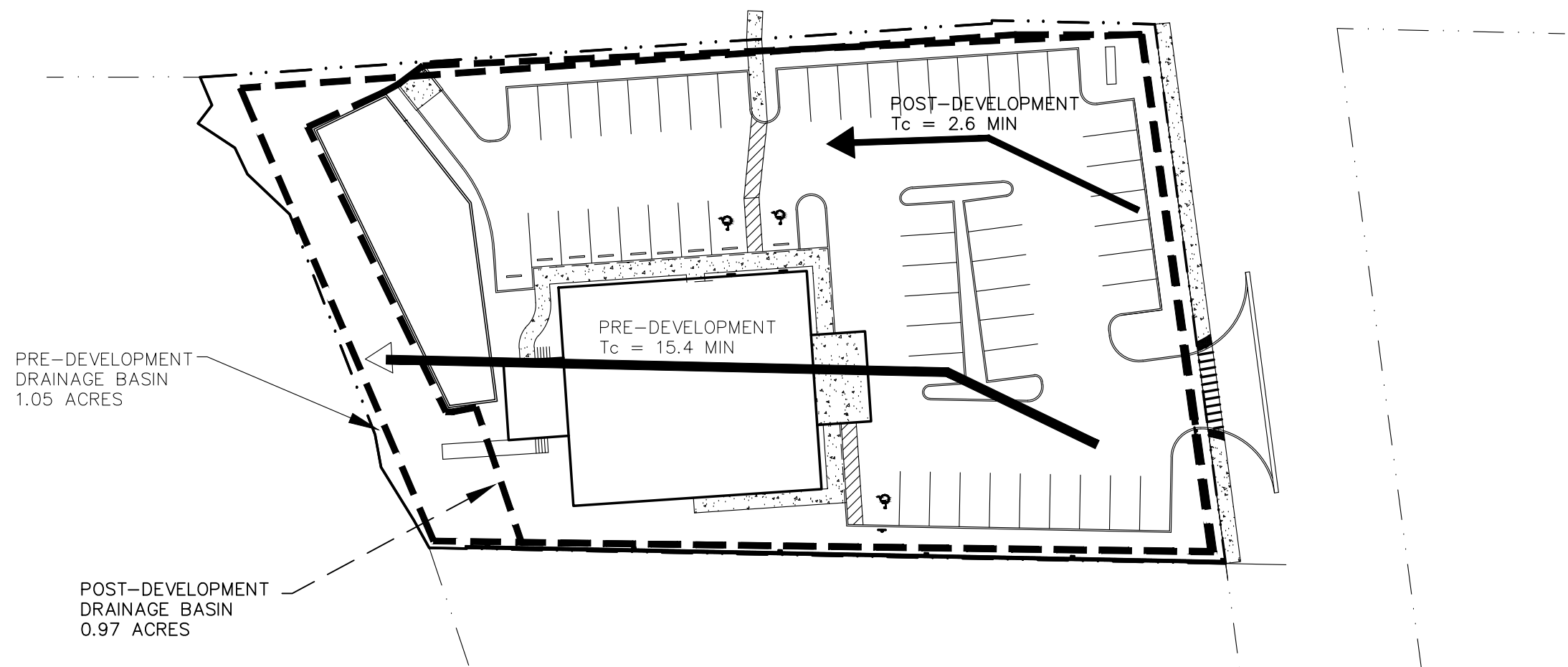
ST-4
 FDOT TYPE C INLET
 TOP EL.=8.75
 N. INV. =6.50
 E. INV. =6.50

ST-5
 MES
 INV. EL. = 6.90

ST-3 / CONTROL STRUCTURE
 FDOT TYPE E INLET
 TOP EL.=10.75
 WEIR EL. =
 N. INV. = 7.0

JOB NO. : 23-004 DATE: 1/5/2023 DRAWN BY : C4G CHECKED BY : C4G APPROVED BY : C4G SCALE : 1"=30'	KNIGHT CENTER 1201 ORANGE AVE., GREEN COVE SPRINGS CYPRESS MANAGEMENT AND DESIGN	PAVING & DRAINAGE PLAN	BLACK CREEK ENGINEERING, INC. 1735 HAGANS RIDGE COURT GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830 AUTHORIZATION NO. 27946	REVISIONS NO. BY DATE	COLIN D. GROFF, P.E. REG. NO. 47609
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PRE-DEVELOPMENT
DRAINAGE BASIN
1.05 ACRES

POST-DEVELOPMENT
DRAINAGE BASIN
0.97 ACRES

PRE-DEVELOPMENT
 $T_c = 15.4 \text{ MIN}$

POST-DEVELOPMENT
 $T_c = 2.6 \text{ MIN}$

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KNIGHT CENTER
1201 ORANGE AVE., GREEN COVE SPRINGS
CYPRESS MANAGEMENT AND DESIGN
DRAINAGE BASINS

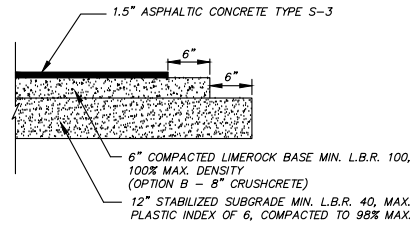
BLACK CREEK ENGINEERING, INC.
1735 HAGANS RIDGE COURT, 32043
GREEN COVE SPRINGS, FLORIDA
PHONE (904) 759-8830
AUTHORIZATION NO. 27946

NO.	REVISIONS	BY	DATE

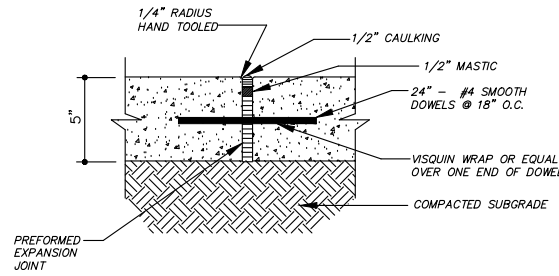
COLIN D. GROFF, P.E.
REG. NO. 47609

SHEET
6

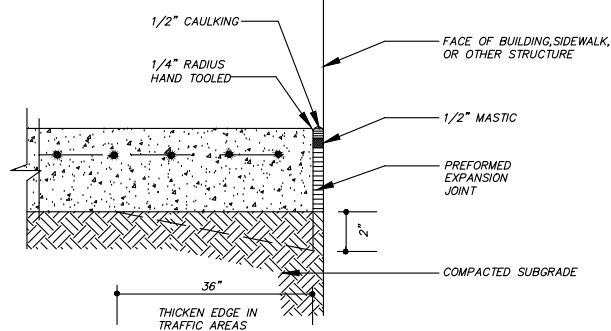
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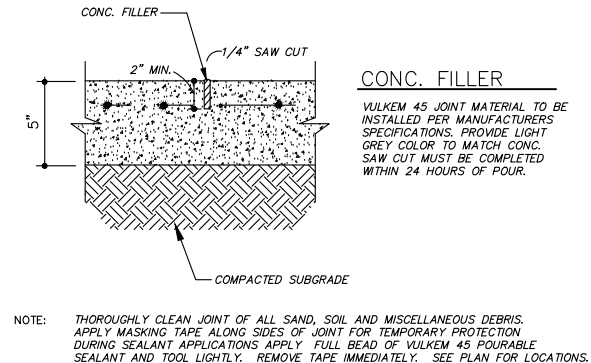
PAVEMENT #1 - ALL INTERNAL PAVEMENT & ACCESS DRIVES
ASPHALT PAVEMENT DETAILS
NOT TO SCALE



EXPANSION JOINT DETAIL
EXPANSION JOINTS AT 25 O.C. (MAX.)

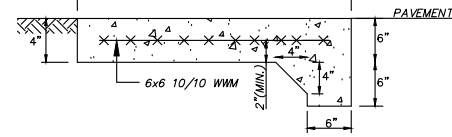


ISOLATION JOINT DETAIL

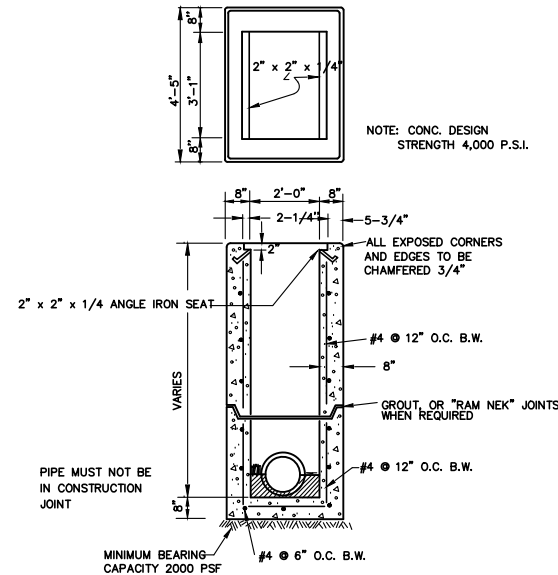


SAWCUT JOINT DETAIL
SAWCUT JOINTS AT 10' O.C. (MAX.)

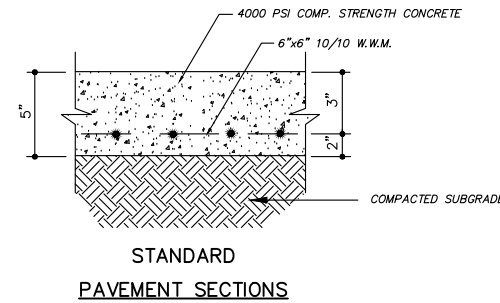
CONCRETE PAVEMENT DETAILS
NOT TO SCALE



SIDEWALK W/O TURNDOWN SECTION

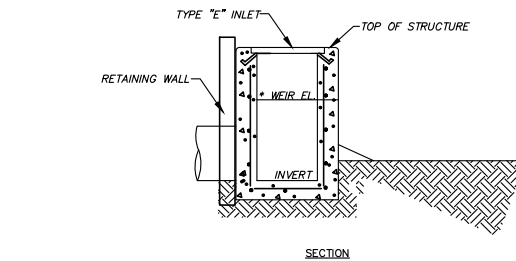


TYPE 'C' INLET DETAIL
NOT TO SCALE



STANDARD PAVEMENT SECTIONS

TOP OF BANK ELEV.	11.00
GRATE ELEV.	10.75
WEIR ELEV.	8.10
ORIFICE ELEV.	N/A
INVERT ELEV.	7.00
SUMP ELEV.	5.00
ORIFICE SIZE (INCHES)	N/A
WEIR LENGTH - SIDE A	N/A
WEIR LENGTH - SIDE B	0.70'
WEIR LENGTH - SIDE C	N/A
OUTLET PIPE SIZE	24"



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

RCP/CMP	A	B	C	D	E	F	G	H	J	K	L	M	N
18" - 18"	2'-7"	2'-1"	6"	6"	6.75"	1'-8"	1'-7"	2'-10"	2'-4"	6"	6"	6'-10"	7'-0"
24"	2'-11"	2'-8"	6"	5"	4.5"	1'-11"	2'-0"	3'-6"	3'-1"	7.5"	5"	10'-0"	10'-3.5"
30"	3'-8"	3'-2"	6"	6"	5.5"	2'-5"	2'-8.5"	3'-9"	3'-5"	7"	5"	11'-5"	11'-8.25"
36"	4'-1"	3'-10"	6"	7"	5.5"	2'-9"	3'-0"	4'-6"	4'-0"	8"	6"	14'-0"	14'-4.5"

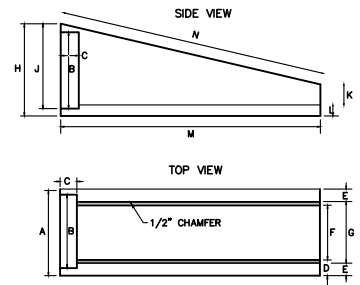
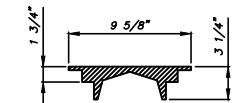


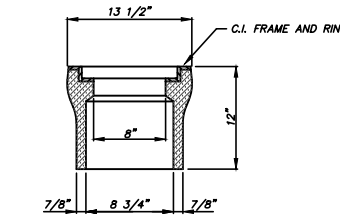
TABLE OF DIMENSIONS

RCP/CMP	A	B	C	D	E	F	G	H	J	K	L	M	N
18" - 18"	2'-7"	2'-1"	6"	6"	6.75"	1'-8"	1'-7"	2'-10"	2'-4"	6"	6"	6'-10"	7'-0"
24"	2'-11"	2'-8"	6"	5"	4.5"	1'-11"	2'-0"	3'-6"	3'-1"	7.5"	5"	10'-0"	10'-3.5"
30"	3'-8"	3'-2"	6"	6"	5.5"	2'-5"	2'-8.5"	3'-9"	3'-5"	7"	5"	11'-5"	11'-8.25"
36"	4'-1"	3'-10"	6"	7"	5.5"	2'-9"	3'-0"	4'-6"	4'-0"	8"	6"	14'-0"	14'-4.5"

MITERED END SECTION DETAIL
NOT TO SCALE



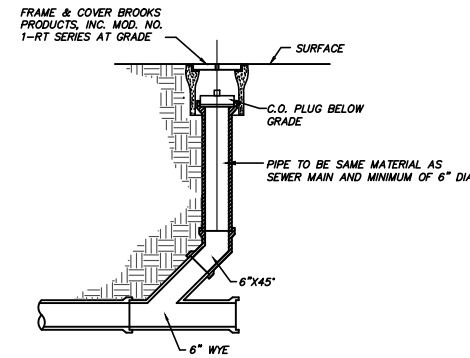
C.I. COVER MARKED "SEWER"



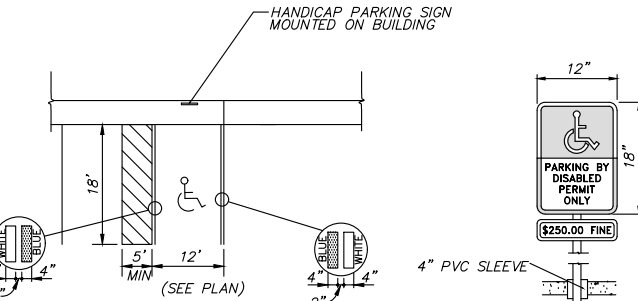
BODY AND FRAME

CLEAN-OUT BOX WITH CAST IRON RING AND COVER IN NON-PAVED AREAS ONLY

STORM SEWER CLEANOUT DETAIL
NOT TO SCALE

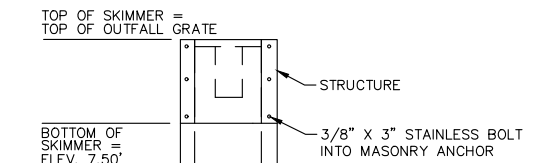
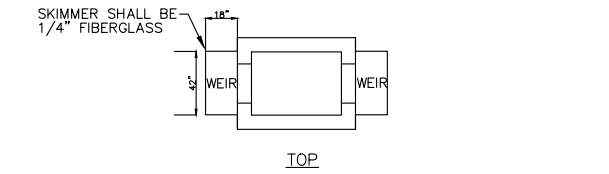


STORM SEWER CLEANOUT DETAIL
NOT TO SCALE



NOTE: EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY", OR BEARING BOTH SUCH SYMBOLS AND CAPTION. SUCH SIGNS SHALL NOT BE OBLSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE DESIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.

HANDICAP PARKING DETAIL
NOT TO SCALE



SKIMMER DETAIL
NOT TO SCALE

COLIN D. GROFF, P.E.
REG. NO. 47609

DATE	
BY	
REVISIONS	
NO.	

BLACK CREEK ENGINEERING, INC.
1735 HAGANS RIDGE COURT
GREEN COVE SPRINGS, FLORIDA 32043
PHONE (904) 759-8830
AUTHORIZATION NO. 27946

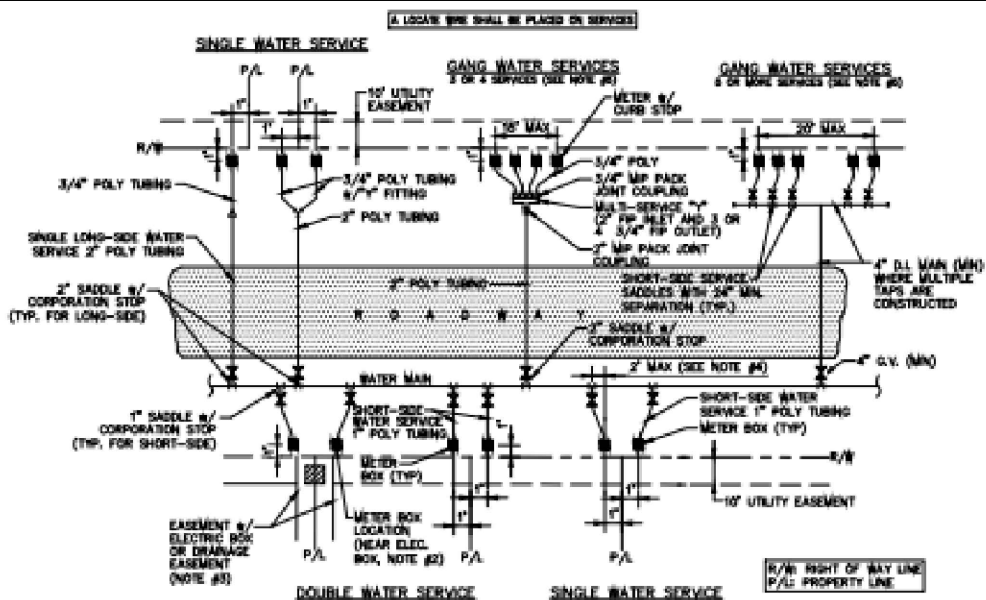
KNIGHT CENTER
1201 ORANGE AVE., GREEN COVE SPRINGS
CYPRUS MANAGEMENT AND DESIGN

CONSTRUCTION DETAILS

JOB NO. : 23-004
DATE: 1/5/2023
DRAWN BY : C4G
CHECKED BY : C4G
APPROVED BY : C4G
SCALE : 1"=30'

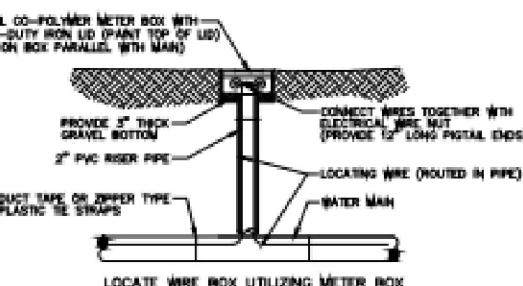
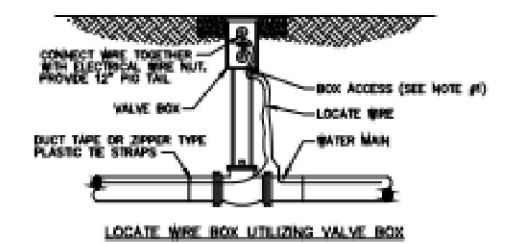
SHEET 7

NOT ISSUED FOR CONSTRUCTION



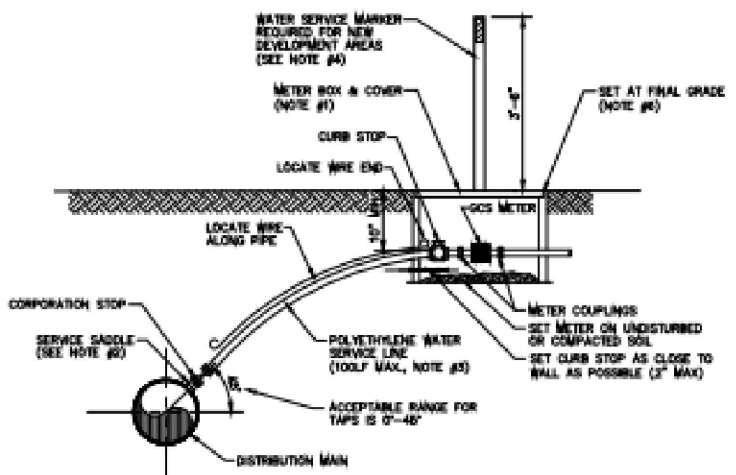
- NOTES**
- THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE.
 - UNLESS SPECIFIED OTHERWISE BY THE CITY OF GREEN COVE SPRINGS, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE, AND 1.0' FOOT INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF 1.0' FEET), UNLESS APPROVED OTHERWISE BY THE CITY. THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF AN UNAPPROVED METER BOX IS IDENTIFIED BY THE CITY, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. THE CITY SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
 - IF DRAINAGE OR OTHER EASEMENT IS LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
 - FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICE'S SADDLE AND THE METER BOX SHALL BE 3 FEET MAXIMUM. FOR DOUBLE 3/4" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES. THE WIRE SHALL RUN FROM THE METER BOX TO THE MAIN (WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPPED OF INSULATION/PAINT WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY THE CITY OF GREEN COVE SPRINGS. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
 - GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTILE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CURB STOP AT WATER MAIN FOR 3 OR MORE SERVICES IN ONE AREA. A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER (MAX)). FOR WATER SUPPLY HEADERS WHERE 6 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN D.I. CROSSING THE STREET FOR 6 RESIDENTIAL CUSTOMERS, UTILIZING 4" G.V., 4" P.P., 4"x1" SADDLES AND 1" CURB STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE ENGINEER.
 - ALL COMMERCIAL WATER SERVICES SHALL BE 2" POLYETHYLENE PIPING CONNECTED TO 2" CURB STOP IN METER BOX, UNLESS OTHERWISE APPROVED BY THE CITY.

WATER SERVICE INSTALLATIONS 2" AND SMALLER METER



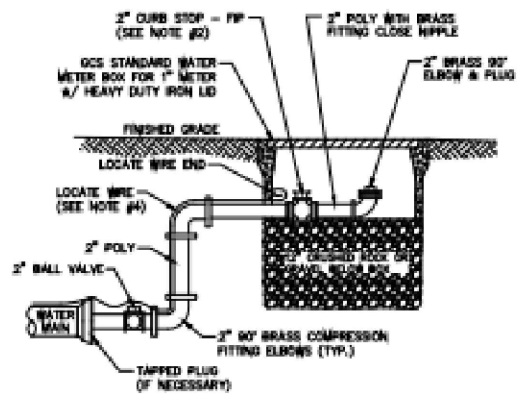
- NOTES**
- LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A 1/2" CUT IN THE 6" PVC RISER PIPE.

LOCATE WIRE BOX



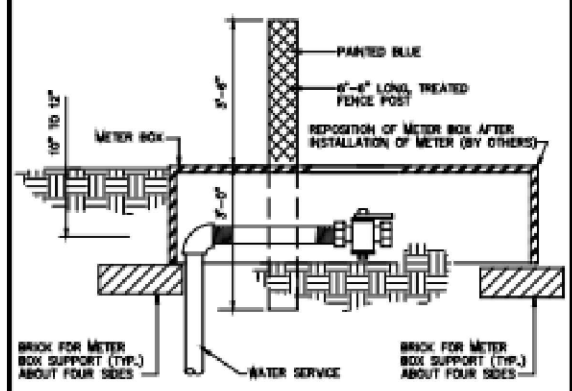
- NOTES**
- SEE CITY OF GREEN COVE SPRINGS APPROVED MATERIALS MANUAL AND SYSTEM DETAILS FOR REQUIREMENTS.
 - SINGLE BAND SADDLES MAYBE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR SET TAPS ON WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED.
 - NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY CITY OF GREEN COVE SPRINGS. CONSTRUCT POLY LINE WITH 36" (MAX.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (3/4" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100' UNLESS OTHERWISE APPROVED BY CITY OF GREEN COVE SPRINGS.
 - INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). IN ADDITION, INSTALL A 6", 6" P.T. FENCE POST (TOP PAINTED BLUE) 12" OFF SIDE OF METER BOX. THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE ROSES, METERS OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
 - METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E., NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
 - LOCATE WIRING REQUIRED ON ALL LONG AND SHORT SERVICES.

WATER SERVICE DETAIL- 2" AND SMALLER METER



- NOTES**
- PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
 - THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
 - CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
 - PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

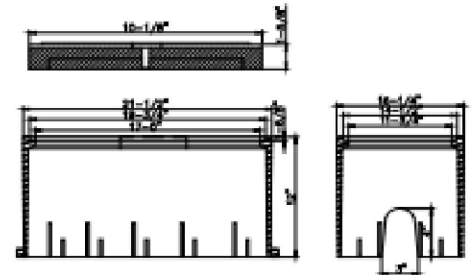
FLUSHING VALVE BELOW GRADE



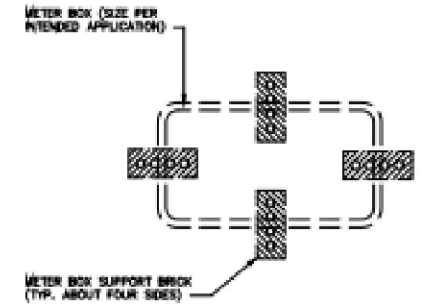
WATER SERVICE MARKER POST

- NOTE:**
- ALL SERVICES ARE TO BE CLEARLY MARKED BY A TREATED 6"-6" LONG MARKER POST PAINTED BLUE. ALL SERVICES ARE TO BE EXTENDED ABOVE GRADE UNTIL COMPLETION OF ALL GRADING ACTIVITIES. ONCE FINAL ROAD GRADING IS COMPLETE, LOWER SERVICES BY CUTTING OFF RISER 10" TO 12" BELOW FINAL GRADE AND INSTALL 90° BEND, NIPPLE AND 1/2" BALL VALVE AT THAT ELEVATION. SET METER BOX OVER ENTIRE HORIZONTAL SECTION OF SERVICE LINE FROM LAST 90° BEND TO THE END OF THE CURB STOP. BOX TO BE REPOSITIONED WHEN THE METER IS INSTALLED. MARKER POST TO BE INSTALLED ADJACENT TO AND LOCATED AT THE MID SECTION OF THE METER BOX.

- NOTE:**
- MIN. WALL THICKNESS 20"
DOUBLE WALL BODY @ STRUCTURAL SUPPORT RIBS @ 4" MIN. THICKNESS @ 4"
BOTTOM FLANGE
BOX IS INSULATED MOLDED STRUCTURAL FOAM RECYCLED POLYPROPYLENE MATERIAL



METER BOX & SOLID BLUE LID



METER BOX SUPPORT DETAIL

NO.	REVISIONS	BY	DATE

NO.	REVISIONS	BY	DATE

PROJECT: **STANDARD WATER SERVICE DETAILS**

CITY OF GREEN COVE SPRINGS
321 WALNUT STREET
GREEN COVE SPRINGS, FLORIDA 32043

ACAD FILE NAME: SERVICES.DWG
SHEET NO. 1 OF 1

COLIN D. GROFF, P.E.
REG. NO. 47609

BLACK CREEK ENGINEERING, INC.
1735 HAGANS RIDGE COURT
GREEN COVE SPRINGS, FLORIDA 32043
PHONE (904) 759-8830
AUTHORIZATION NO. 27946

KNIGHT CENTER
1205 ORANGE AVE., GREEN COVE SPRINGS
CYPRESS MANAGEMENT AND DESIGN

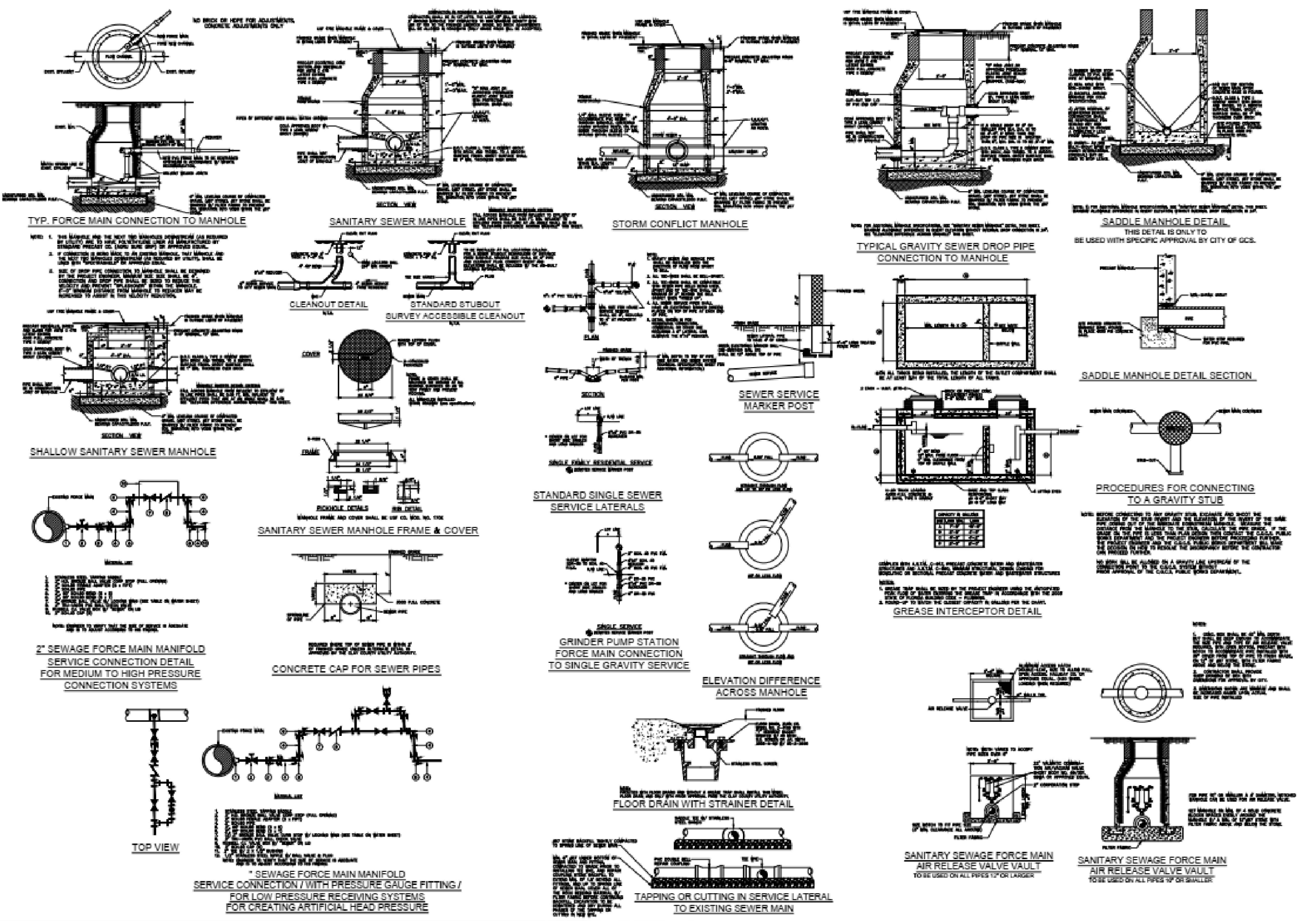
WATER SERVICE DETAILS

JOB NO. : 23-004
DATE: 5/1/2023
DRAWN BY: CAG
CHECKED BY: CAG
APPROVED BY: CAG
SCALE: NTS

NOT ISSUED FOR CONSTRUCTION

I:\CAD\Plan\Green Cove Springs\2023\23-004\23-004.dwg
 PLOT DATE: 5/1/2023 11:10:57 AM
 PLOT BY: CAG

SHEET 9 OF 12 (SEE SHEETS 10 & 11)
CITY OF GREEN COVE SPRINGS
1201 ORANGE AVE., GREEN COVE SPRINGS, FLORIDA 32043
321 WALNUT STREET
GREEN COVE SPRINGS, FLORIDA 32043
ACAD FILE NAME: SEWSTAND.DWG
SHEET NO.



REVISIONS	
NO.	DESCRIPTION

DESIGN	
DRAWN	
CHECKED	
APPROVED	

NO.	DATE	BY	DESCRIPTION

PROJECT: STANDARD SEWER SYSTEM DETAILS

CITY OF GREEN COVE SPRINGS
321 WALNUT STREET
GREEN COVE SPRINGS, FLORIDA 32043

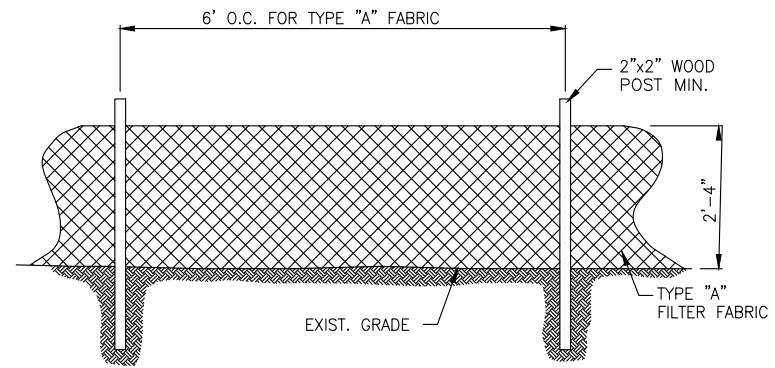
BLACK CREEK ENGINEERING, INC.
1735 HAGANS RIDGE COURT
GREEN COVE SPRINGS, FLORIDA 32043
PHONE (904) 759-8830
AUTHORIZATION NO. 27946

KNIGHT CENTER
1201 ORANGE AVE., GREEN COVE SPRINGS
CYPRESS MANAGEMENT AND DESIGN

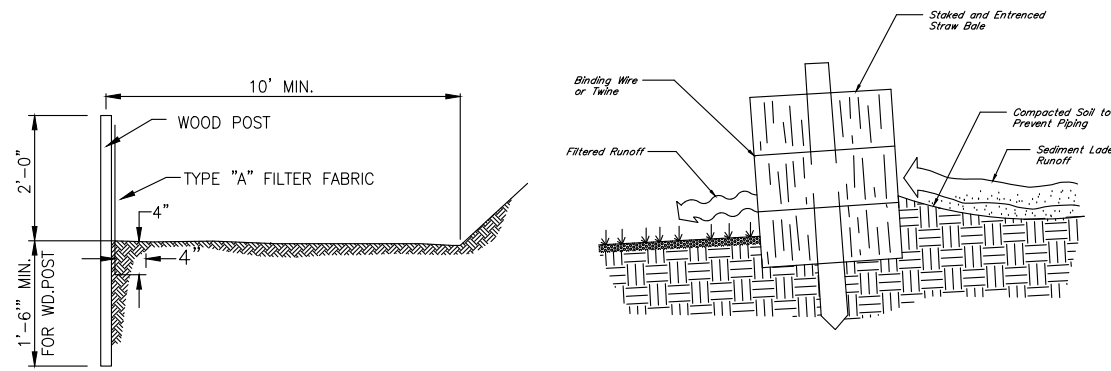
SEWER DETAILS

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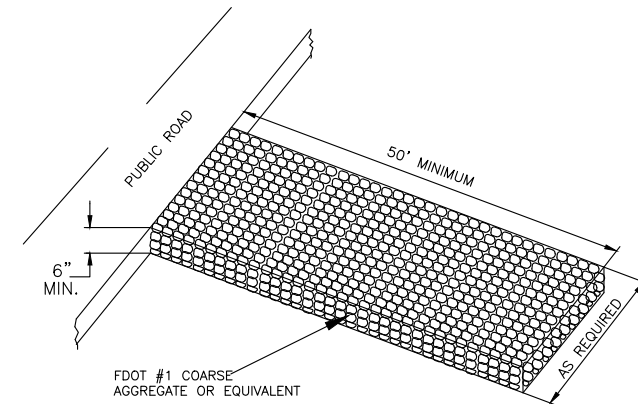
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TEMPORARY SILT FENCE

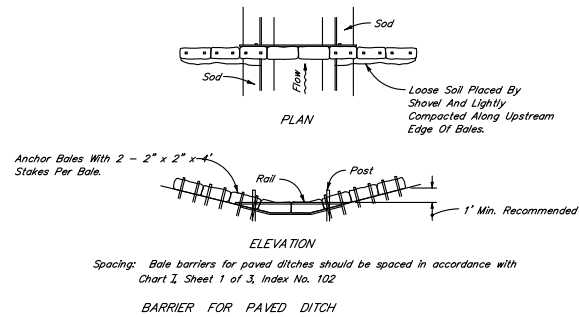


CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE
STAKED HAY BALE

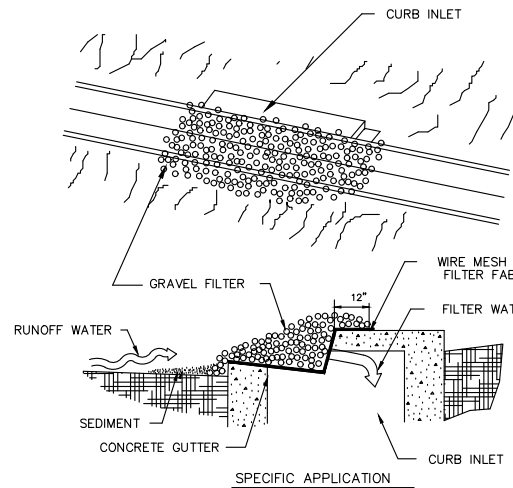


STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



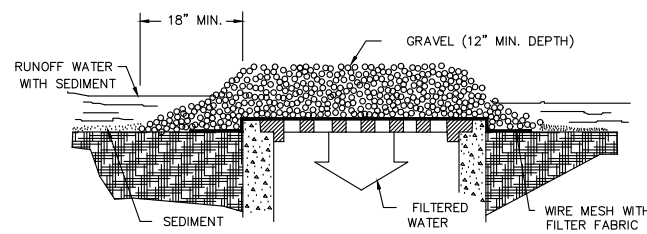
BARRIER FOR PAVED DITCH



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL CURB INLET SEDIMENT FILTER



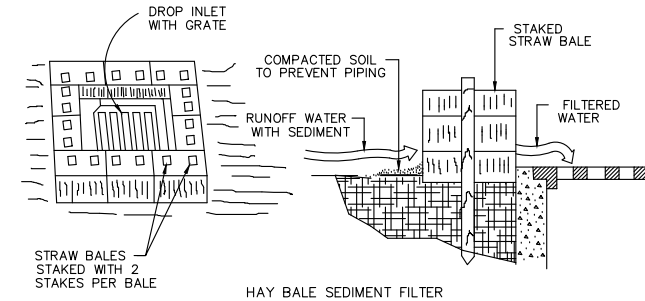
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

GRAVEL INLET SEDIMENT TRAP

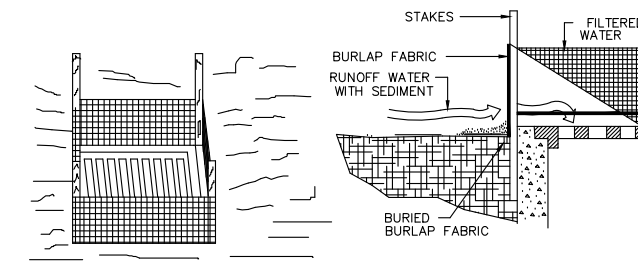
N.T.S.



HAY BALE SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



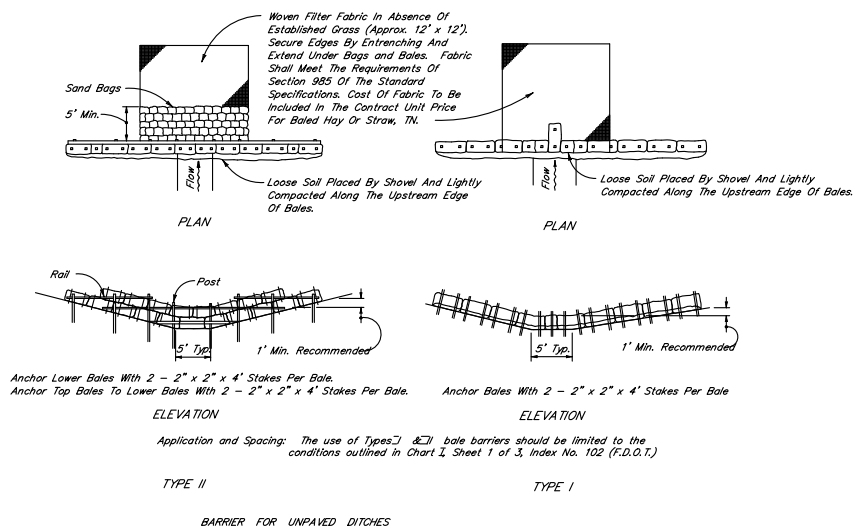
FABRIC SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

DROP INLET SEDIMENT TRAP

N.T.S.



BARRIER FOR UNPAVED DITCHES

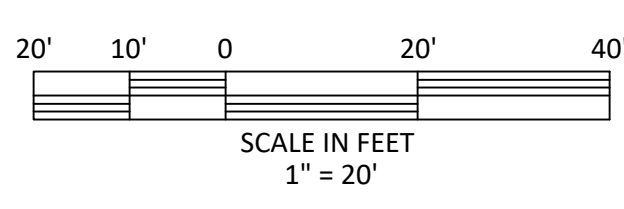
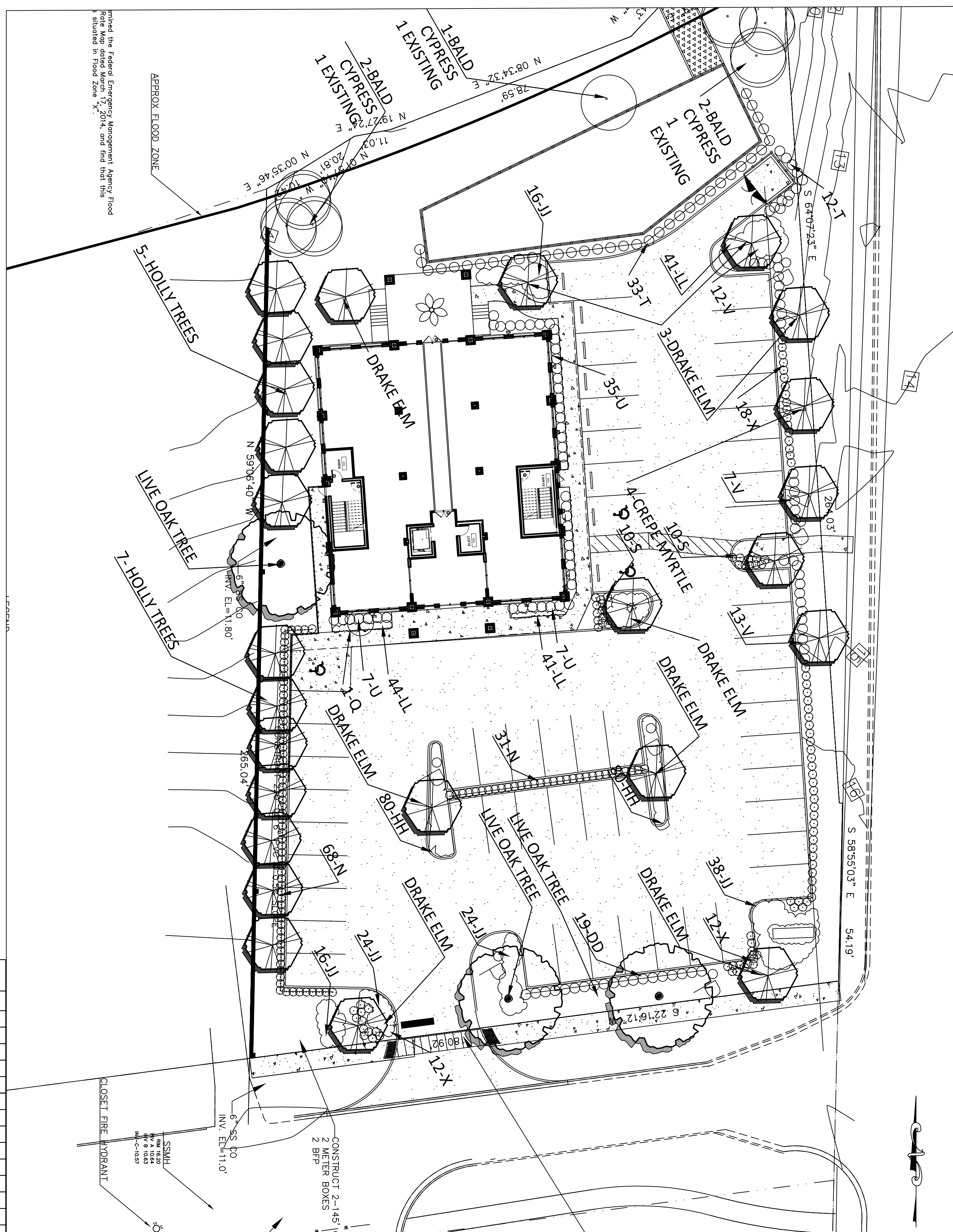
HAY BALE BARRIERS TYPE I & II

COLIN D. GROFF, P.E. REG. NO. 47609	
NO.	REVISIONS
BY	DATE
BLACK CREEK ENGINEERING, INC. 1735 HAGANS RIDGE COURT GREEN COVE SPRINGS, FLORIDA 32043 PHONE (904) 759-8830 AUTHORIZATION NO. 27946	
KNIGHT CENTER 1201 ORANGE AVE., GREEN COVE SPRINGS CYPRESS MANAGEMENT AND DESIGN	
STORMWATER POLLUTION PREVENTION PLAN	
JOB NO. : 23-004	DATE: 5/1/2023
DRAWN BY : C4G	CHECKED BY : C4G
APPROVED BY : C4G	SCALE : NTS
SHEET	
10	

SHRUBS:		
N	JAPANESE BOXWOOD	DD AZALEA
O	GREEN PITTOSPORUM	EE HYDRANGA
P	LIGUSTRUM	FF FERNS
Q	CAMELLIA	GROUNDCOVER:
R	STAR JASMINE	HH ASIATIC JASMINE
S	RAPHIOLEPSIS	JJ BLUE AGAPANTHUS
T	VIBURNUM	KK LIRIOPE
U	FIEJOA	LL MONDO GRASS
V	VAR PITTISPORUM	MM DWARF MONDO GRASS
W	DWARF BURFORD HOLLY	NN CONFEDERATE JASMINE
X	DWARF SCHILLINGS HOLLY	OO CREEPING FIG
Y	CANNA LILY	PP AFRICAN IRIS
Z	LORIPELLUM	QQ BLUE PLUMBAGO
AA	PHILODENDRON SELLOUM	RR VAR. LIRIOPE
BB	HIBISCUS	SS LANTANA
CC	CAST IRON PLANT	TT GINGER
		UU ANNUALS

Tree Specifications
 3-Live Oak-6" Caliper 18"
 12-Holly Trees- 3" Caliper 36"
 9-Drake Elms- 4" Caliper 36"
 4-Crepe Myrtles- 4" caliper- multi stem 16"/2= 8"
 3- Bald Cypress-4" caliper 12"
 New Trees - 110" 31 total trees

28 NEW TREES
 3 RETAINED TREES -27" PLUS 18" WITH SMALLER CYPRESS
 110+27"= 137" CALIPER
 OVER 50% SHADE TREES



EXISTING 39" LIVE OAK- IT MAY BE POSSIBLE TO SAVE THIS TREE BY MODIFYING PUD. WOULD BE RESPONSIBILITY OF CITY TO NEGOTIATE AND CHANGE ENTRANCE TO SITE AND SAVE TREE.

944 LF PROPERTY LINE/50= 19 trees
 49,500 SF PROPERTY
 INTERIOR TREES
 1 FOR 10,500/1500 7
 38,049/4000 10

TOTAL TREES REQUIRED- 36

36 AT 2 1/2" CALIPER-- 90"

444' LF PROPERTY LINE NOT ADJACENT TO PROPERTY- ADD - 41 SHRUBS

PLANT SPACING- SIZE:
 V-26" HT MIN 3 GAL-36" O.C
 X- 24" HT MIN 3 GAL- 30" O.C
 U- 28" HT 5 GALLON- 36" O.C
 T- 36" HT- 5 GALLON- 42" O.C
 S- 18" MIN 3 GALLON-30" O.C
 ALL OTHER GROUND COVER- MIN 1 GALLON 18" O.C

GRASS - ST AUGUSTINE SOD

100 % IRRIGATION ON ALL LANDSCAPE AREAS
 AUTOMATIC CLOCK LOCATE - OUTSIDE ON WEST SIDE OF BUILDING
 DRIP IRRIGATION ON ALL SHRUBS- SPRAY ZONES ON GRASS

ALL TREES AND SHRUBS TO BE FLORIDA #1 OR BETTER

Ex. Tree Removal
 Live Oak-39"- Not Specimen See Note
 Laurel Oak- 28"- Remove 28"
 Laurel Oak-26"- Deceased
 Southern Magnolia-24"- Remove 24"
 laurel Oak- 25"- Deceased
 Bald Cypress 27"- Retain
 Bald Cypress 9"- Retain
 Bald Cypress 9"- Retain

Total trees removed- 91"

CONFIRM WITH ALL UTILITY TO AVOID PLANTING TREES DIRECTLY OVER LINES

DATE	REVISIONS	XXX
5-17-2023	SITE PLAN REVISIONS	
6-9-2023		
7-20-2023		

KNIGHT CENTER
 MASTER SITE PLAN
 PLANTING PLAN

DATE 5-9-2023
 DRAWN BY
 CHKD. BY
 JOB NO.

ROBERT HARTWIG
 LA 0012

SHT. LS-1

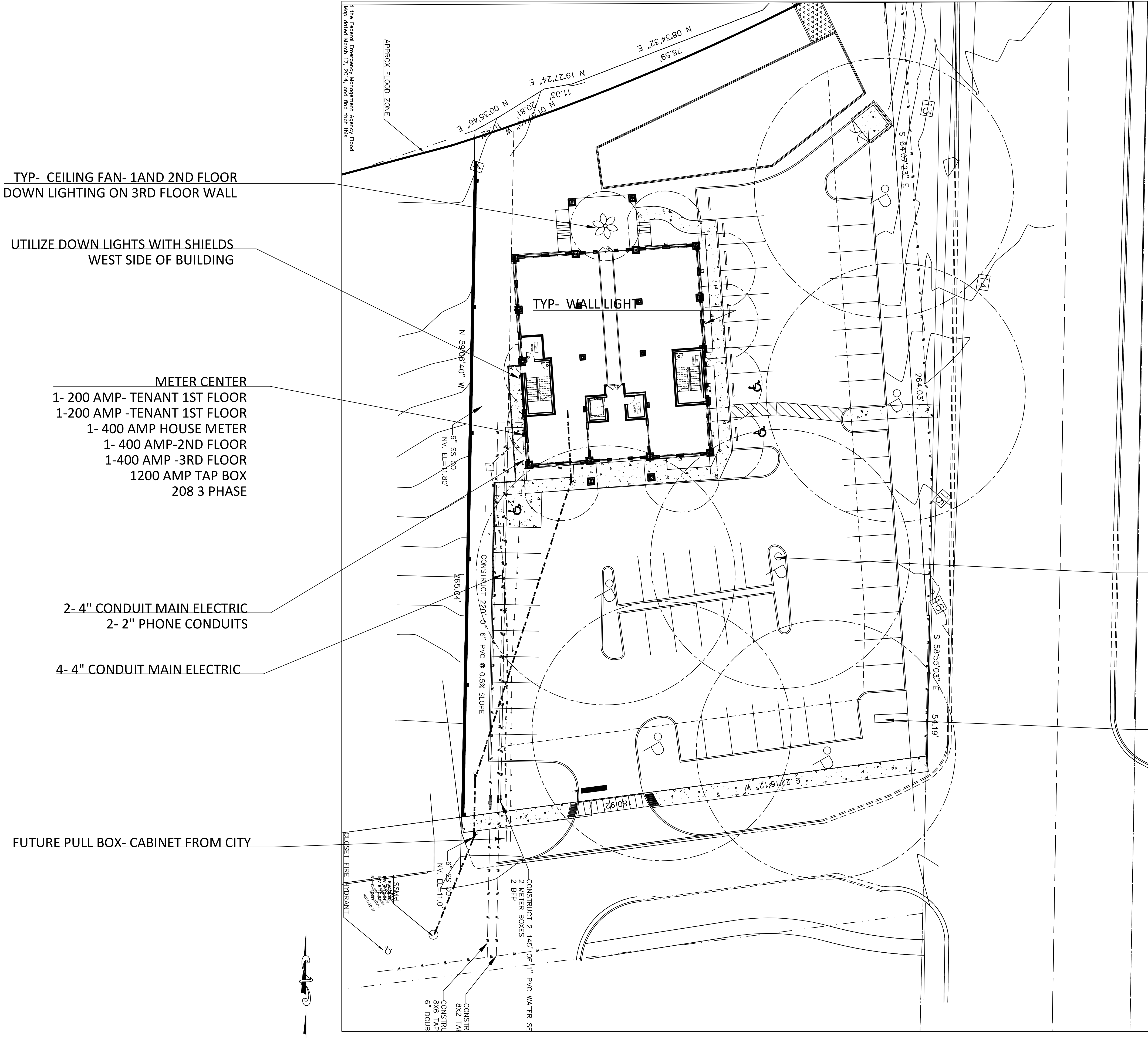
DATE	REVISIONS
5-17-2023 <td>SITE PLAN REVISIONS</td>	SITE PLAN REVISIONS
7-20-2023 <td>SITE PLAN REVISIONS</td>	SITE PLAN REVISIONS

**KNIGHT CENTER
MASTER SITE PLAN
PRELIMINARY ELECTRICAL PLAN**

DATE 5-9-2023
DRAWN BY
CHKD. BY
JOB NO.

ROBERT HARTWIG
LA 0012

SHT. LS-2



TYP- CEILING FAN- 1AND 2ND FLOOR
DOWN LIGHTING ON 3RD FLOOR WALL

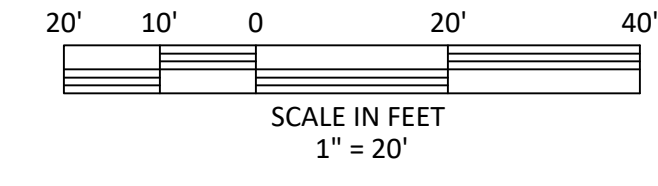
UTILIZE DOWN LIGHTS WITH SHIELDS
WEST SIDE OF BUILDING

- METER CENTER
- 1- 200 AMP- TENANT 1ST FLOOR
- 1-200 AMP- TENANT 1ST FLOOR
- 1- 400 AMP HOUSE METER
- 1- 400 AMP-2ND FLOOR
- 1-400 AMP -3RD FLOOR
- 1200 AMP TAP BOX
- 208 3 PHASE

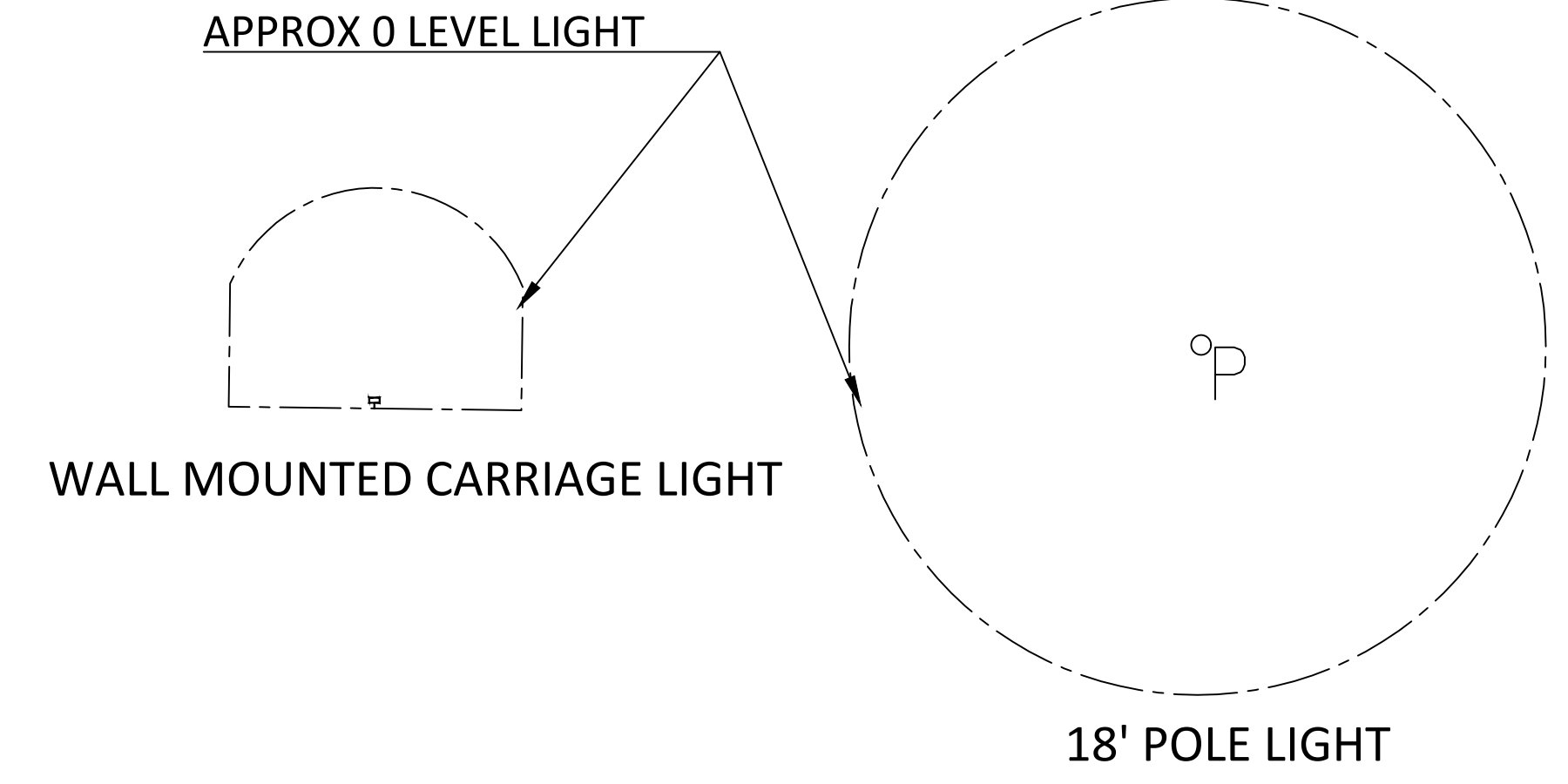
2- 4" CONDUIT MAIN ELECTRIC
2- 2" PHONE CONDUITS

4- 4" CONDUIT MAIN ELECTRIC

FUTURE PULL BOX- CABINET FROM CITY

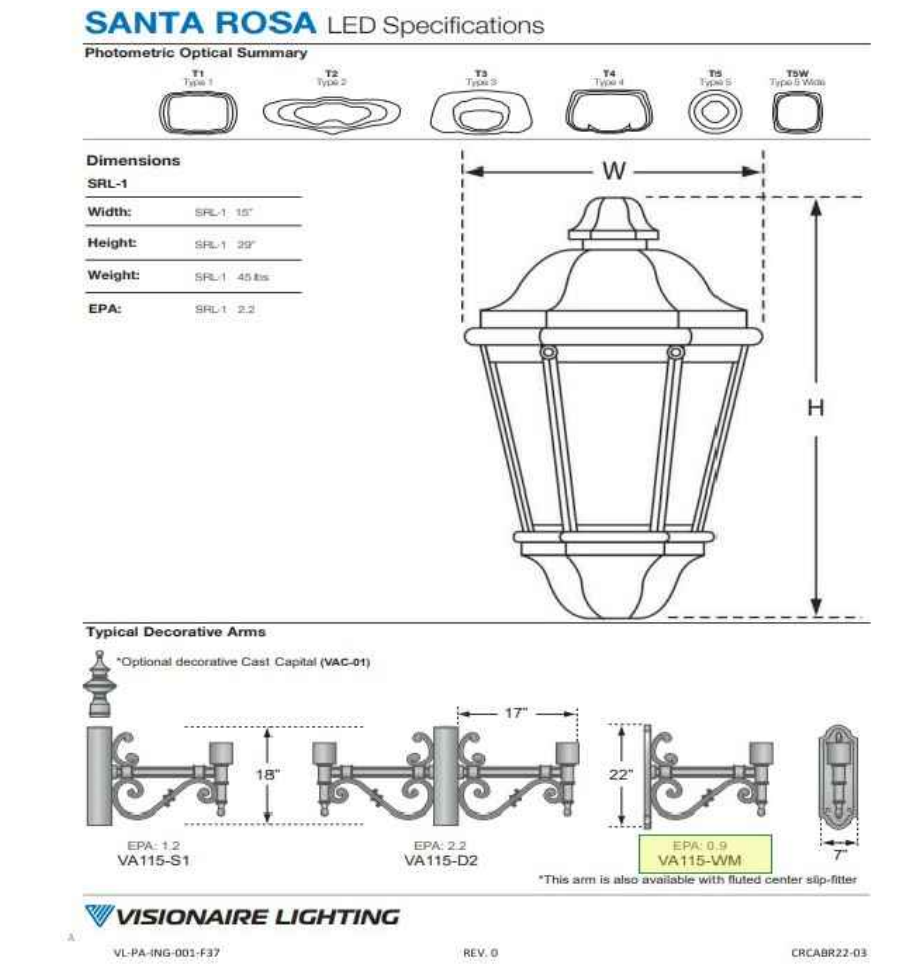
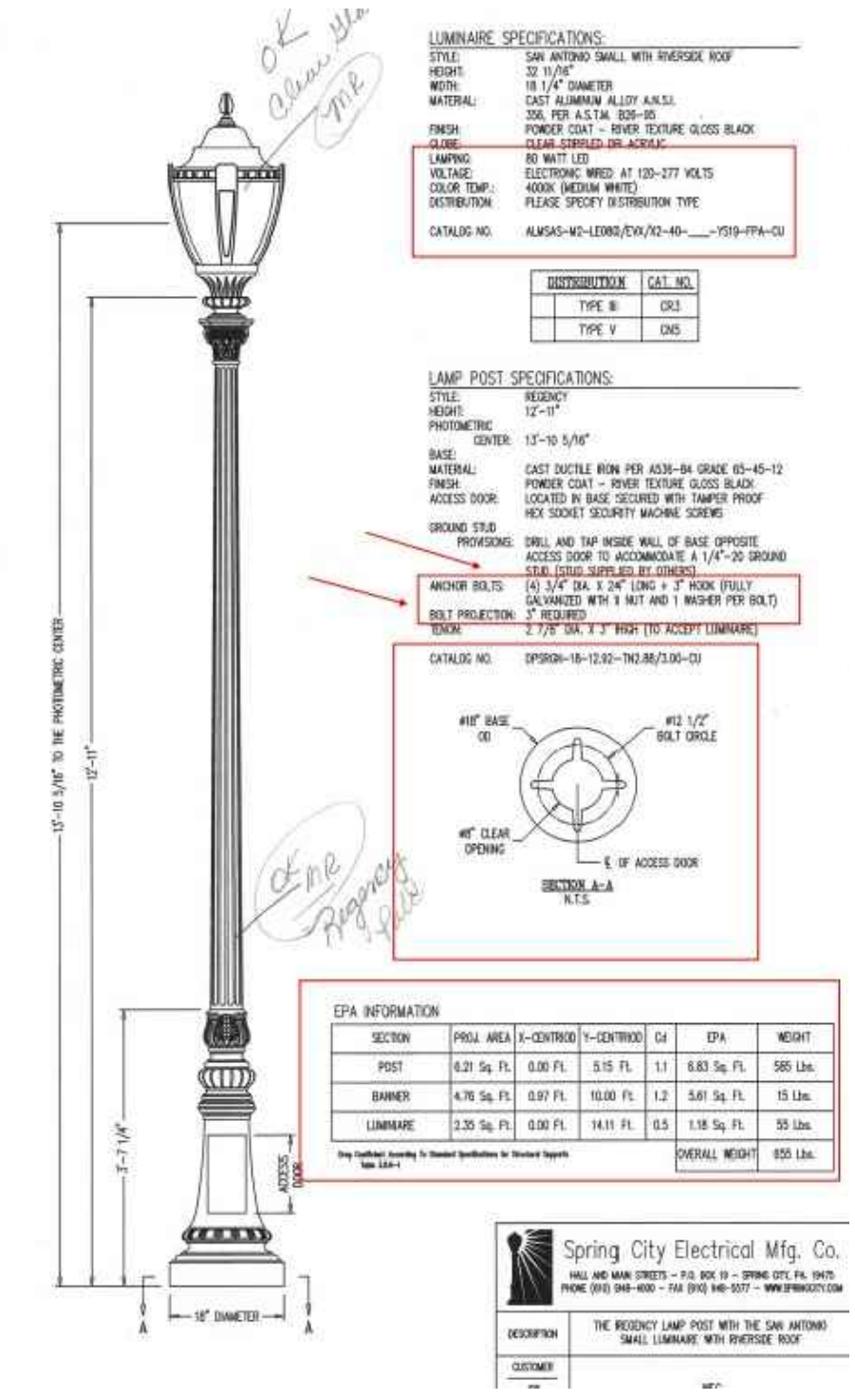


CONFIRM WITH CITY ALL UTILITY CONNECTIONS

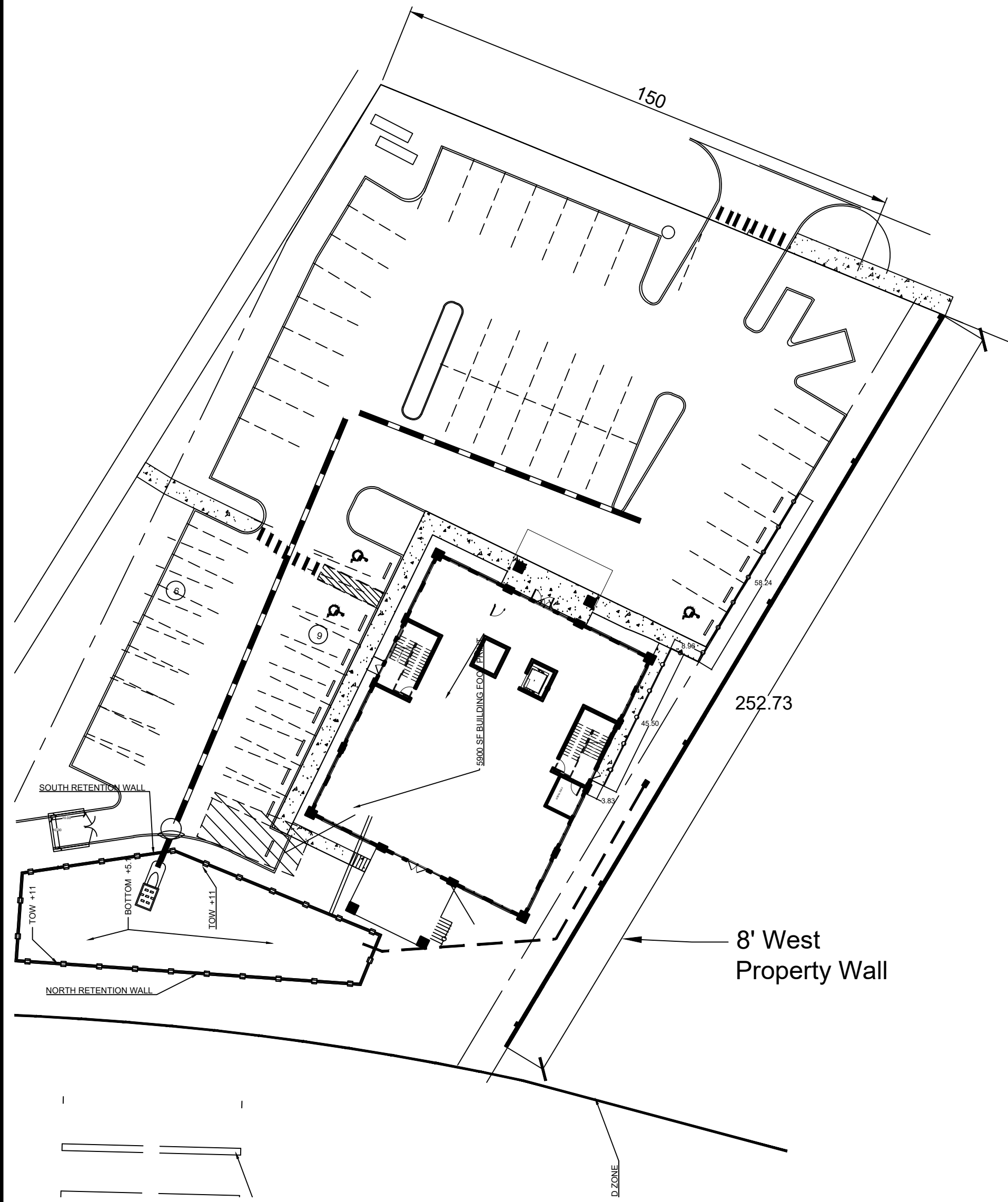


TYP- POLE LIGHT

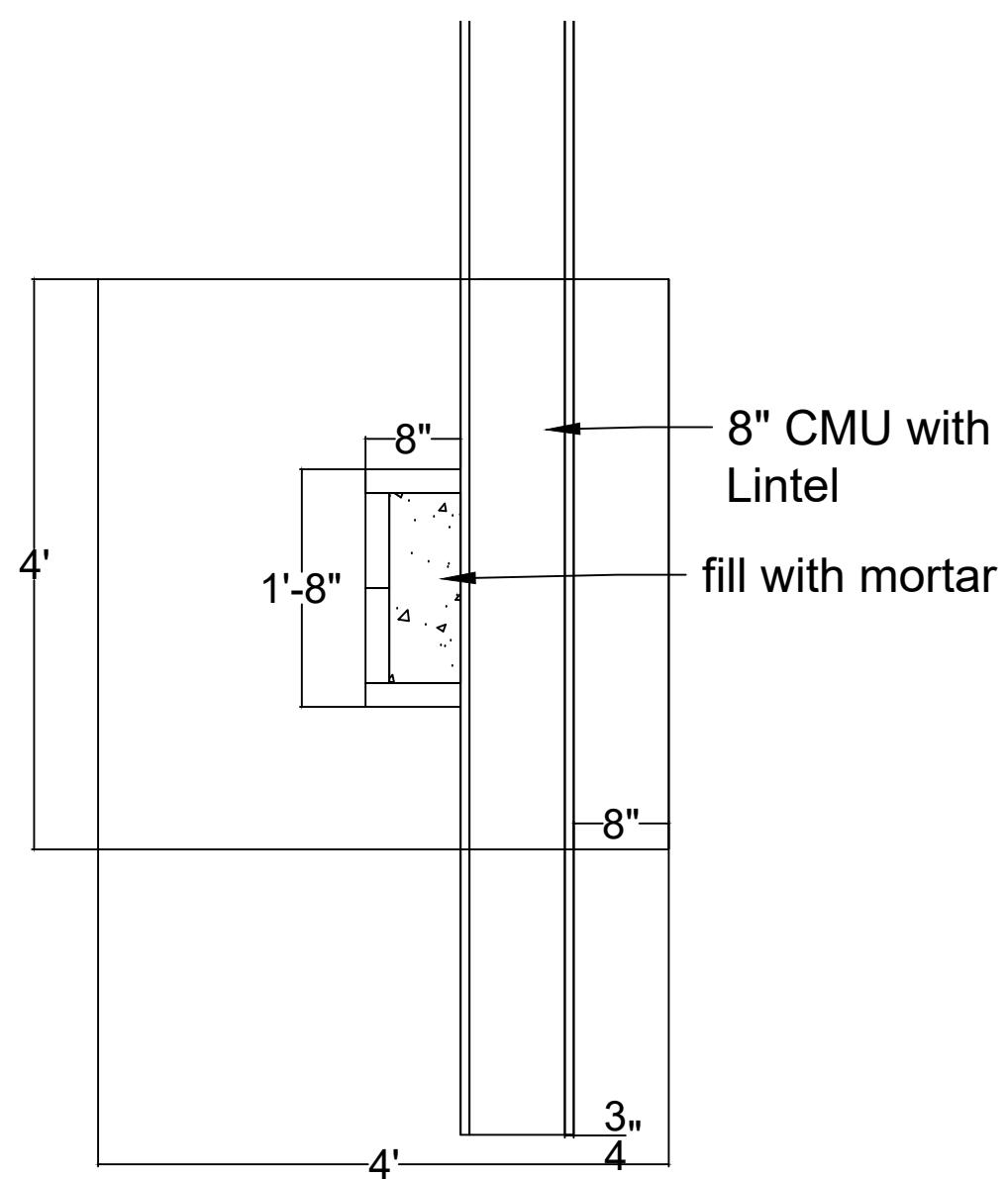
BACK LIT MONUMENT SIGN



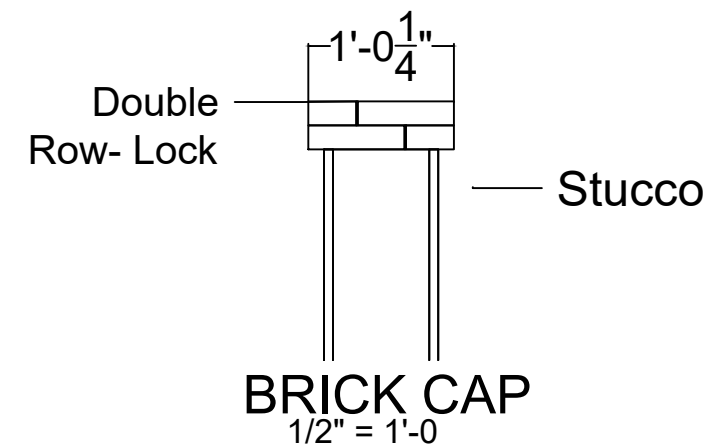
WALL MOUNTED CARRIAGE LIGHT



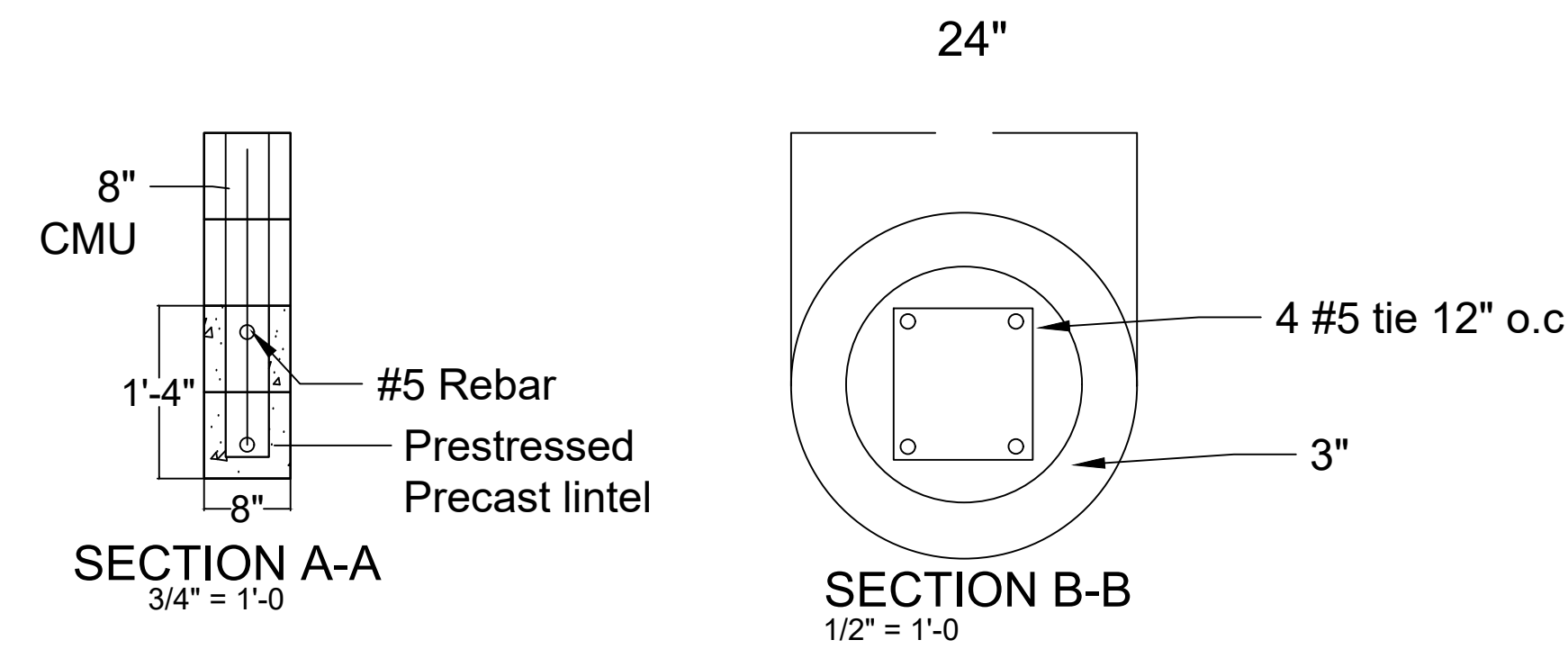
Notes
 See page LSS-2 for general structure notes
 For soil reports, see Legacy Project no. 23-1132.1



PLAN VIEW BRICK COLUMNS
 3/4" = 1'-0"

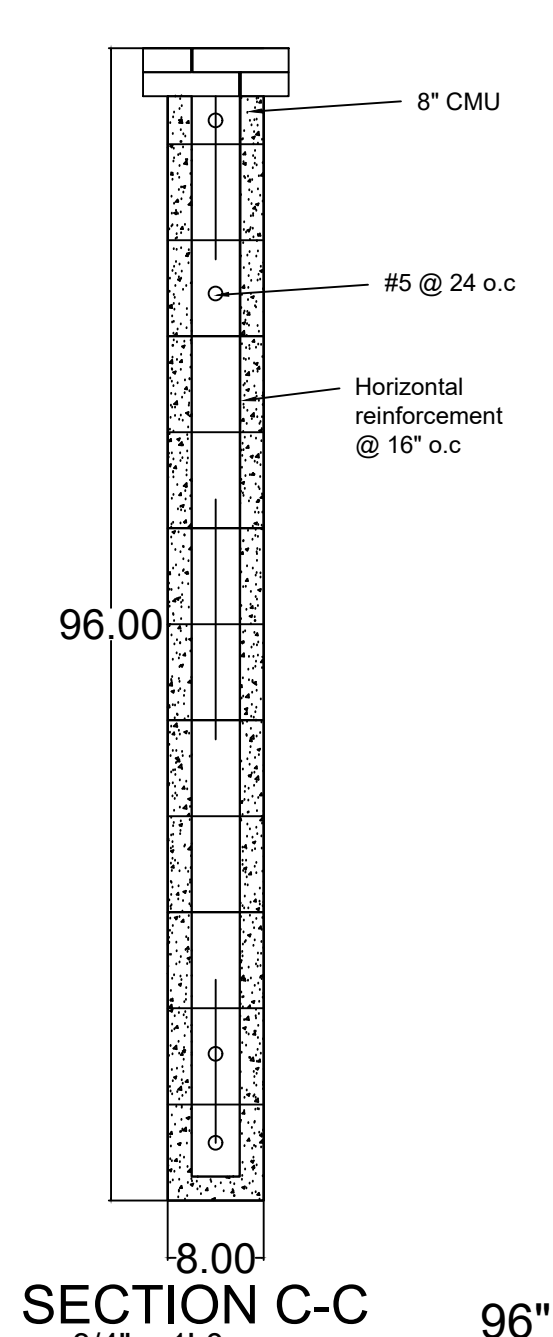


BRICK CAP
 1/2" = 1'-0"

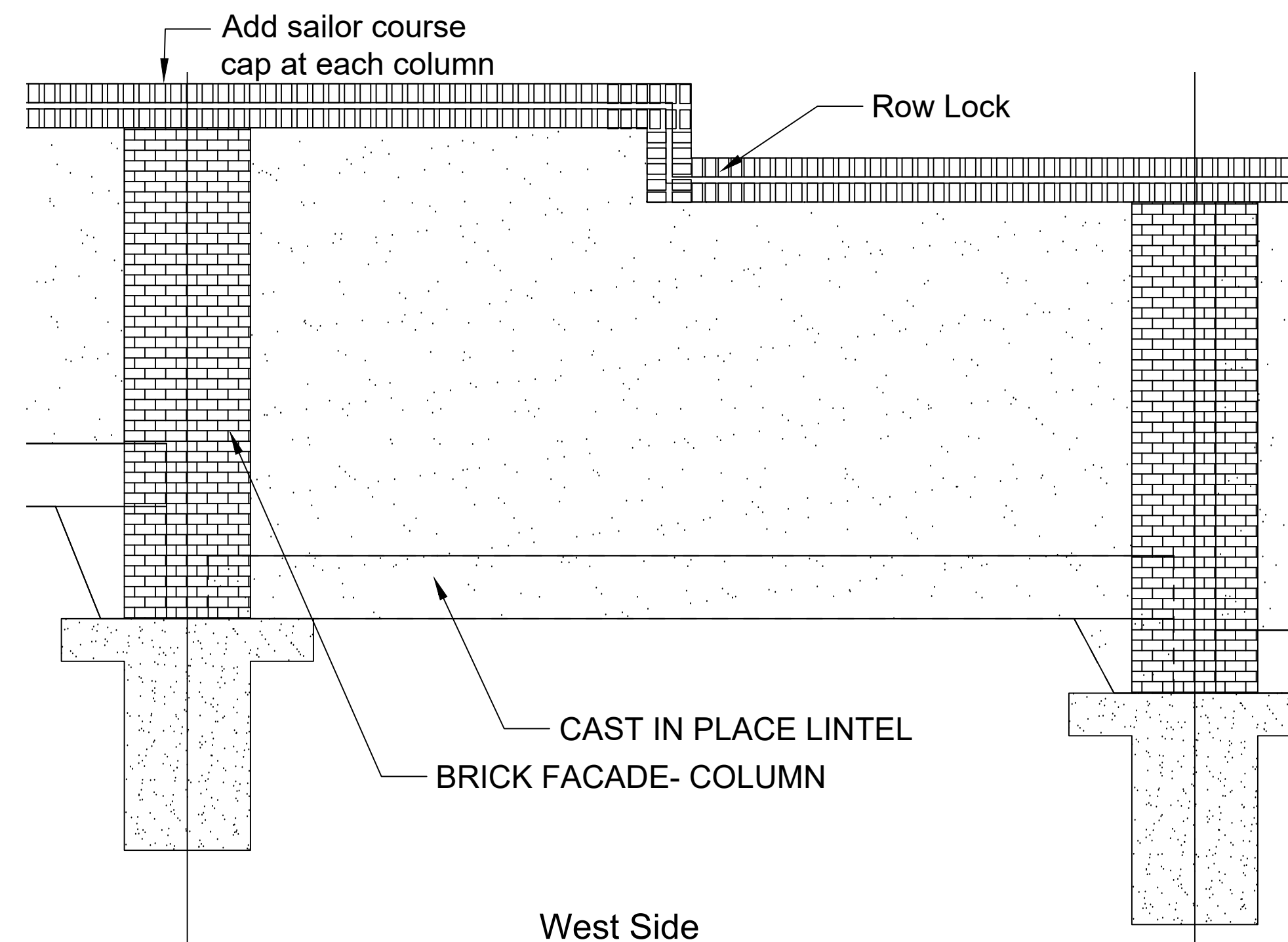


SECTION A-A
 3/4" = 1'-0"

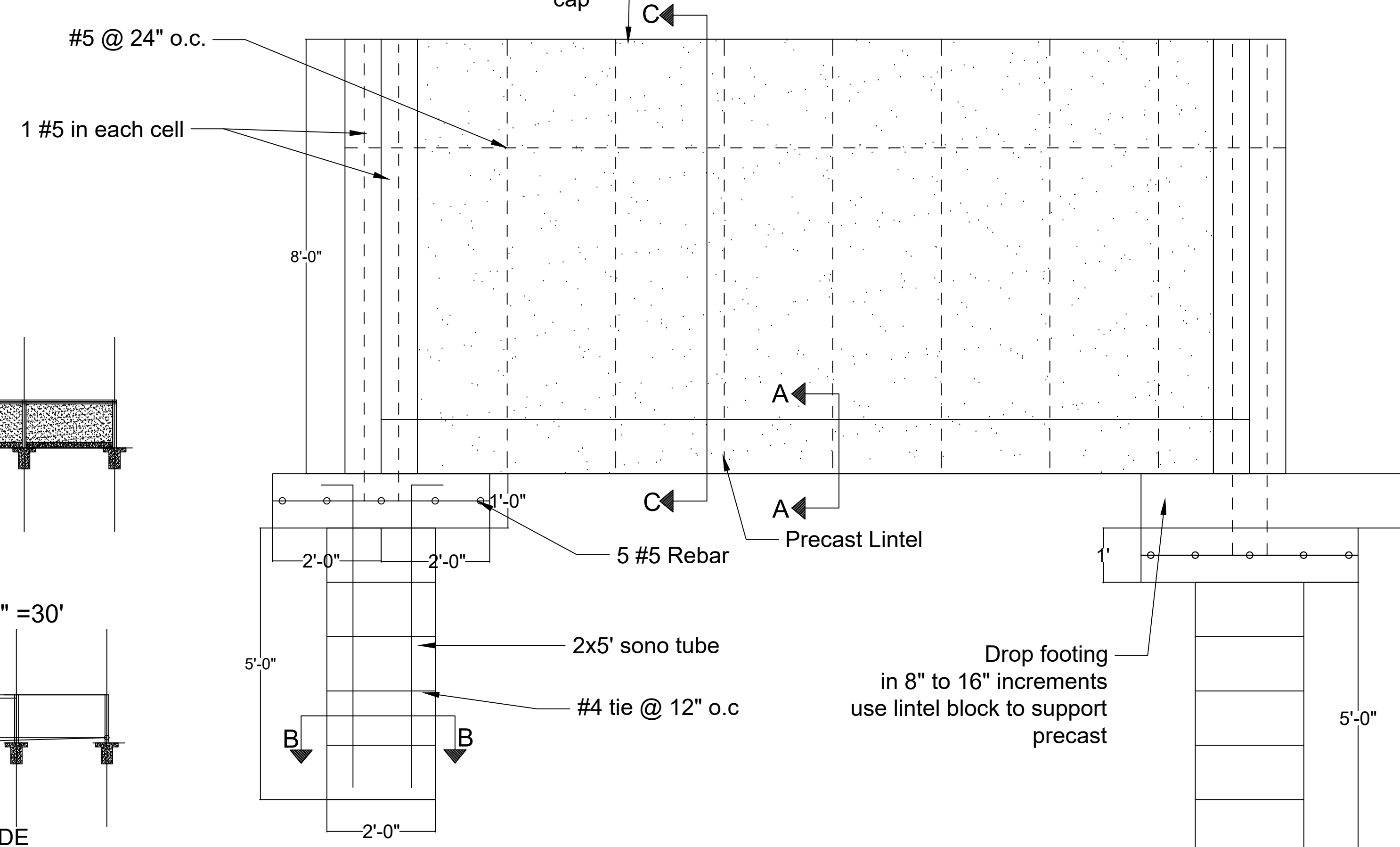
SECTION B-B
 1/2" = 1'-0"



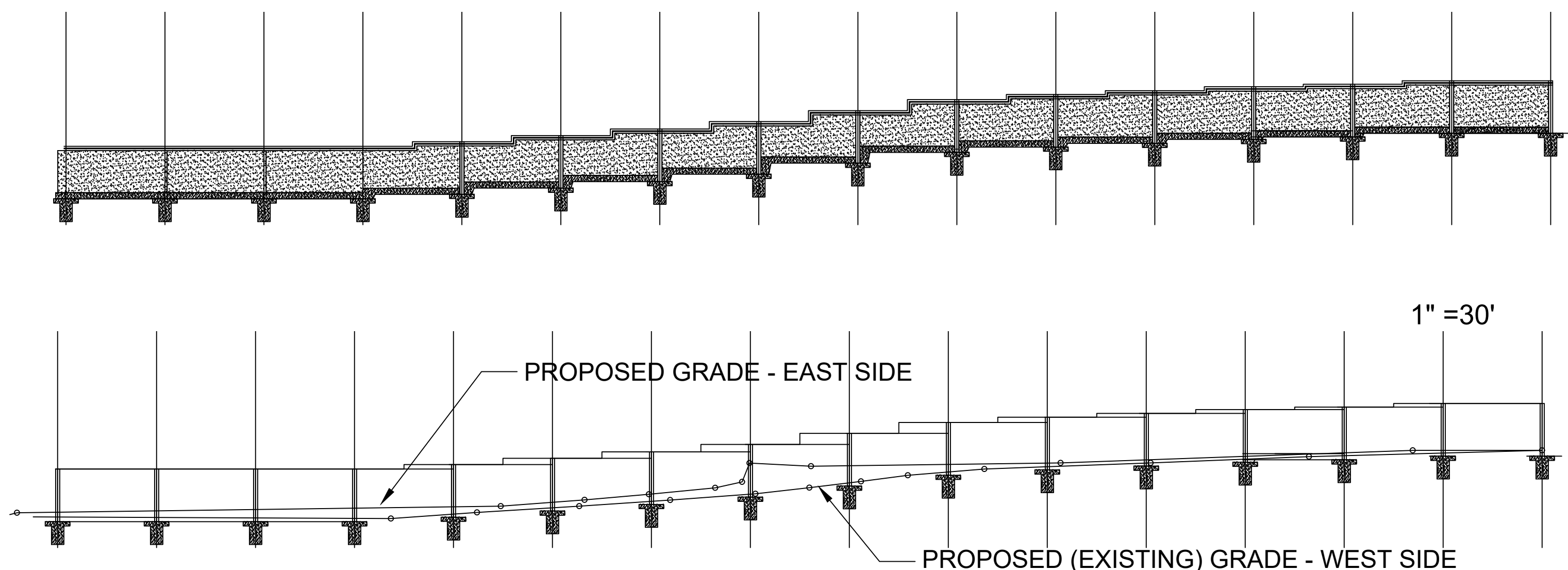
SECTION C-C
 3/4" = 1'-0"



West Side



PROPERTY LINE WALL



1" = 30'

CYPRESS MANAGEMENT AND DESIGN
 P.O. BOX 8880 FLEMING ISLAND, FL 32006
 904-759-9576 - SITEOP@BELLSOUTH.NET

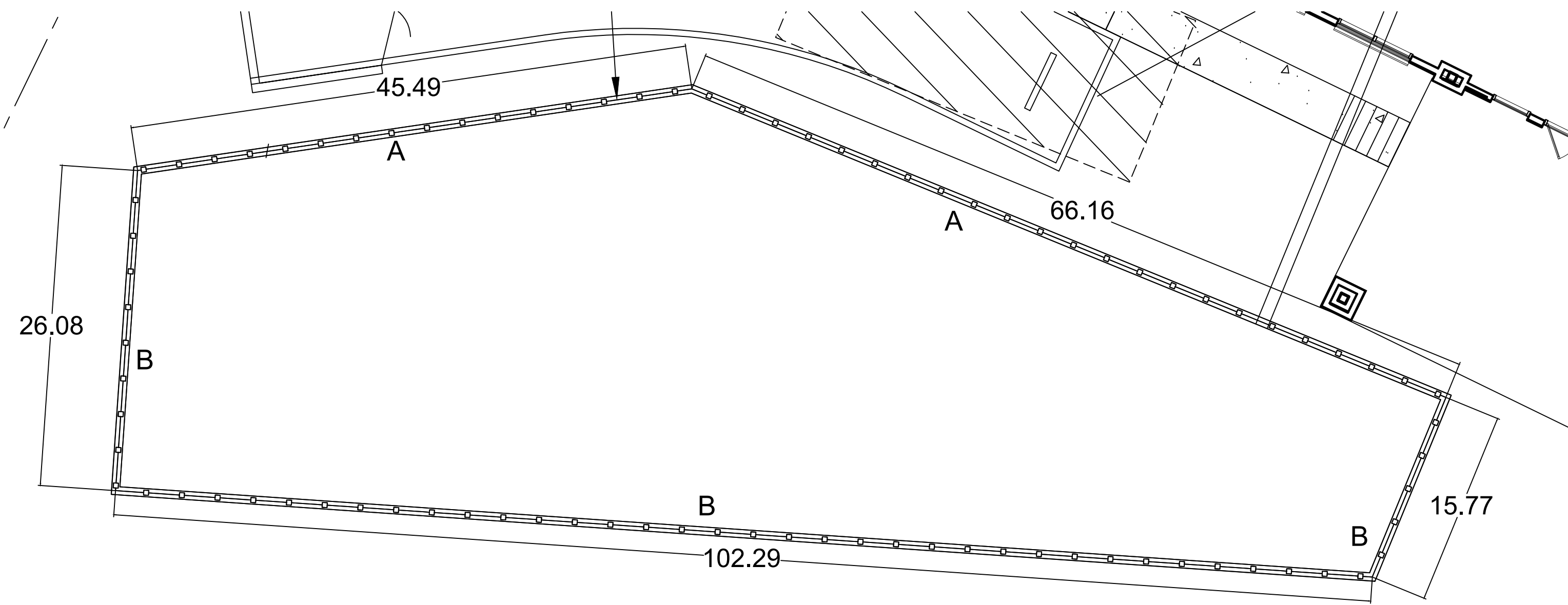
DATE	DATE	DATE

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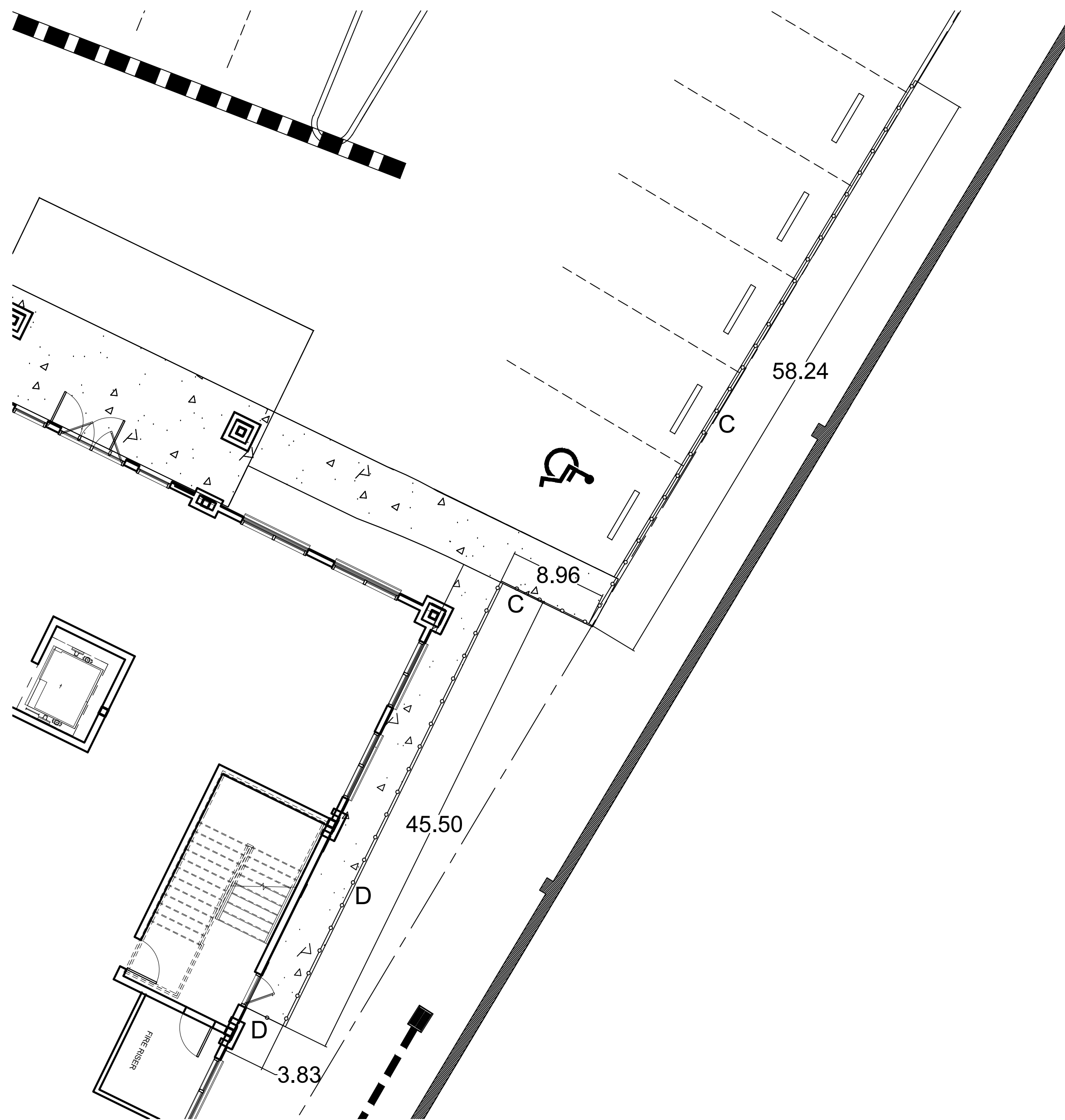
DATE 7-12-2023
 DRAWN BY
 CHKD. BY
 JOB NO.

JAE LEE

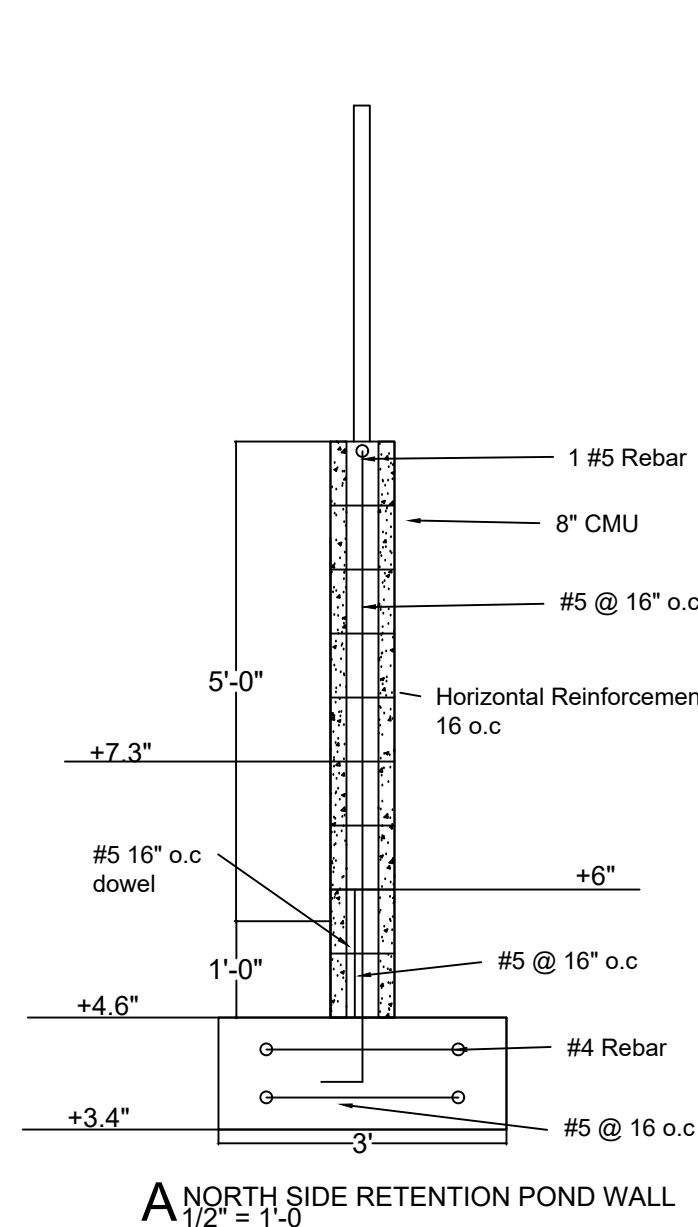
SHT. LSS-1



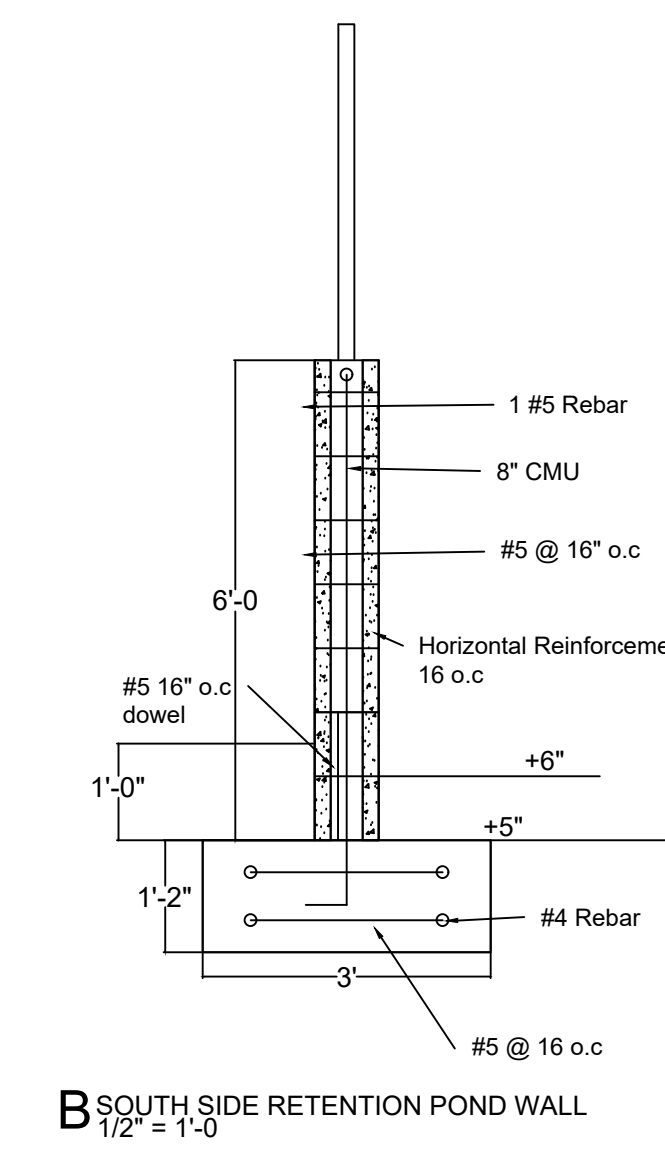
RETENTION WALL
Scale: 1"=8'-0



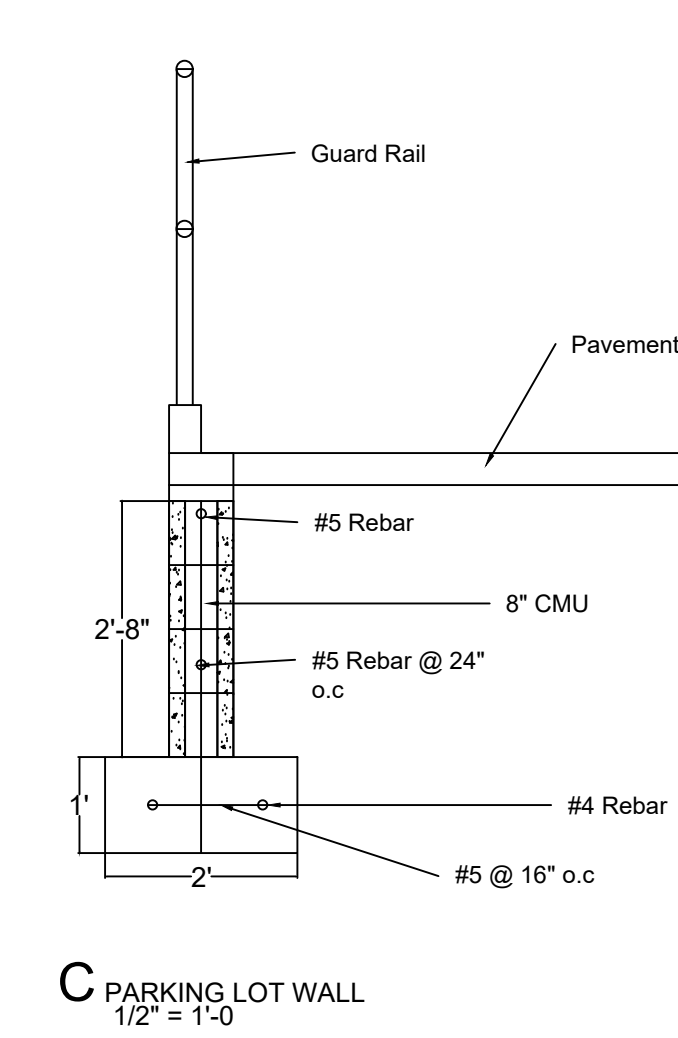
PARKING LOT WALL
Scale: 1"=8'-0



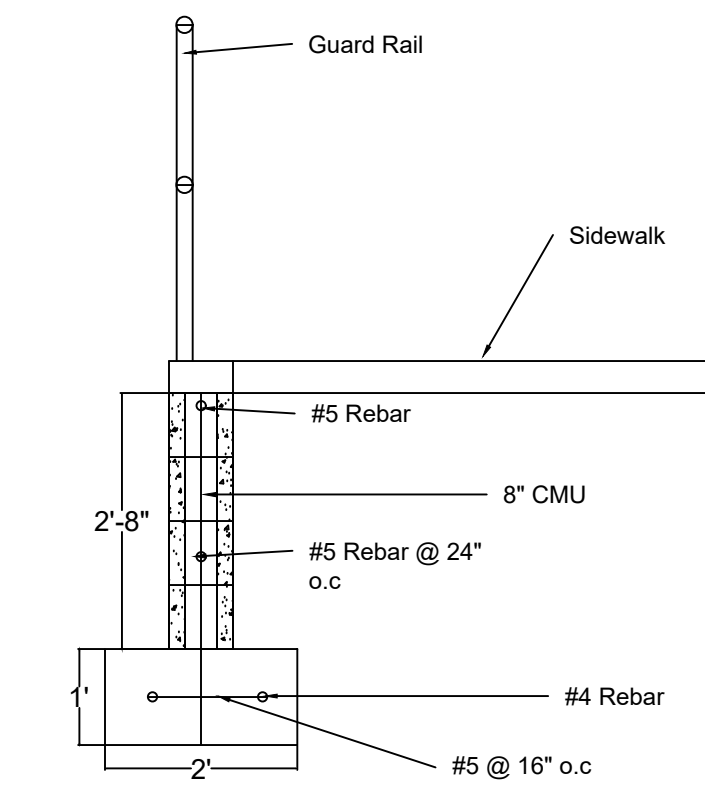
A NORTH SIDE RETENTION POND WALL
1/2" = 1'-0



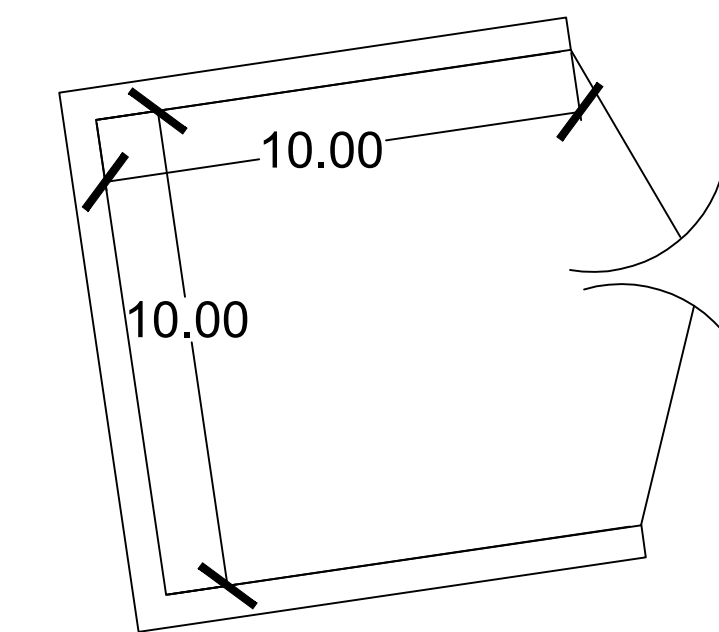
B SOUTH SIDE RETENTION POND WALL
1/2" = 1'-0



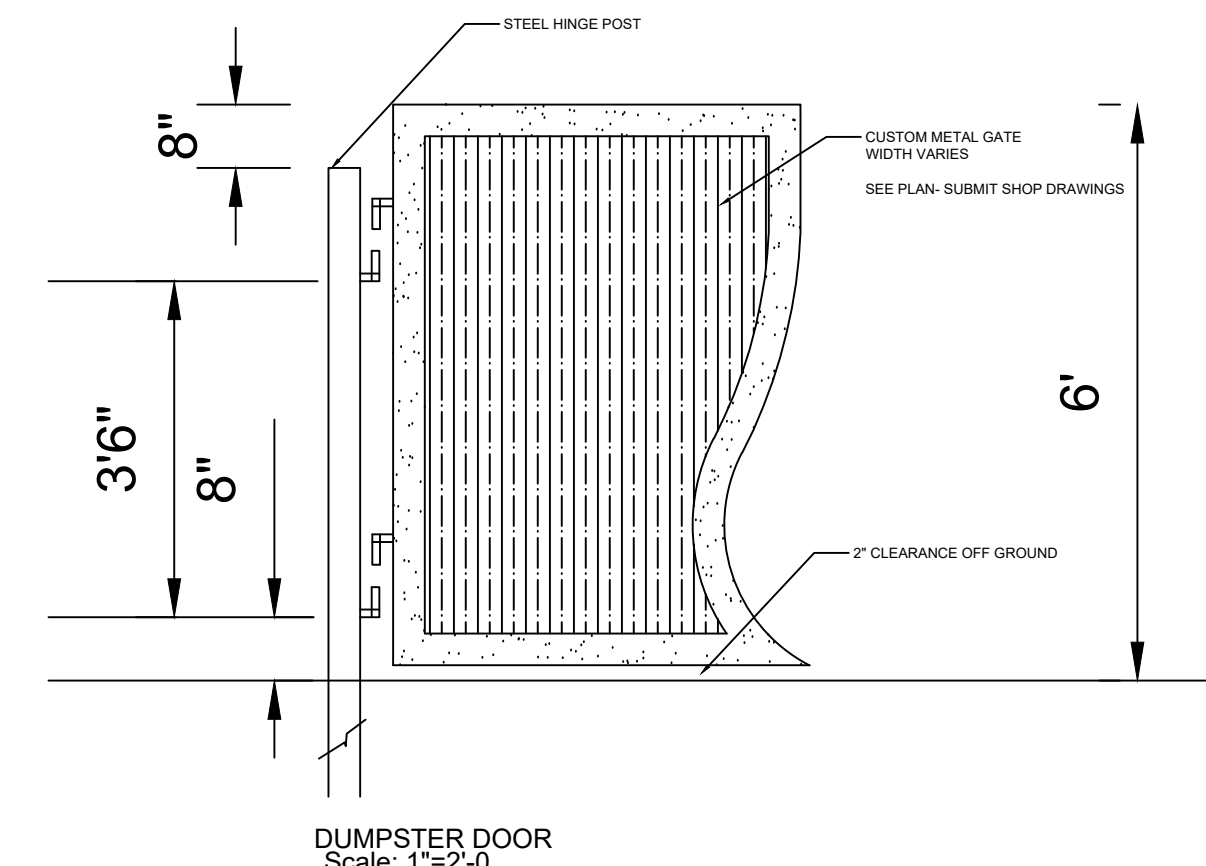
C PARKING LOT WALL
1/2" = 1'-0



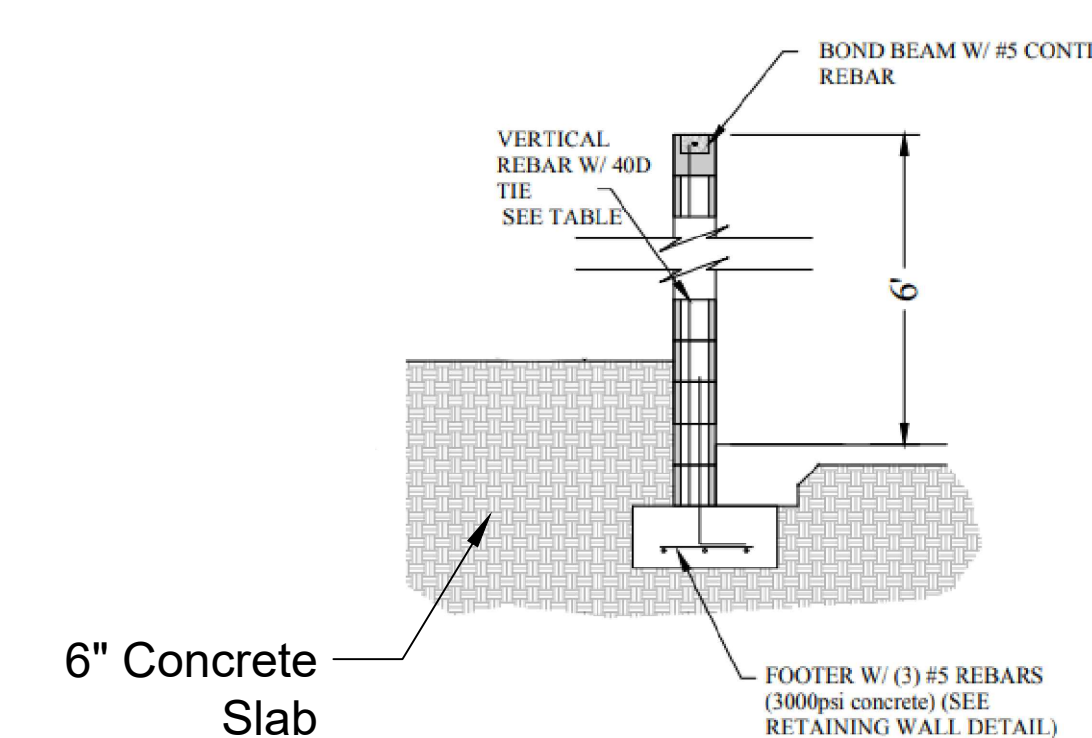
D PARKING LOT WALL
1/2" = 1'-0



DUMPSTER WALL
Scale: 1"=4'-0



DUMPSTER DOOR
Scale: 1"=2'-0



DUMPSTER WALL
N.T.S

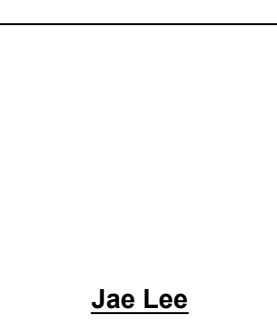
GENERAL STRUCTURAL NOTES

- Codes: Florida Building Code 2020 and American Concrete Institute.
- Wind Load:
Ultimate Design Wind Speed 130
Building Risk Category II
Wind Exposure B
Exposure Open
- Allowable Soil Bearing: 2500 psf
- Soil Compaction:
Soil under slab on grade and foundation shall be compacted to 95% modified proctor max. dry density (ASTM D-1557). Contractor shall submit density test report to Owner or Engineer.
- Materials:
Concrete (Normal weight-28 days) 3000 psi
Reinforcing Bar ASTM A615, Gr 60
Hollow Load Bearing CMU ASTM C90, Gr N-1
- Concrete:
All concrete to be designed as per ACI 318 latest edition.
Footings 3000 psi
Slab on grade 3000 psi
All others 3000 psi
Splices in reinforcing where permitted:
Concrete 50 bar diameter
Masonry 48 bar diameter
Unless shown on drawings, minimum concrete cover for reinforcing:
Cast against earth 3"
Slab on grade centered
Exposed to earth or weather:
#6 thru #11 bars 2"
#5 bars & smaller 1 1/2"
All reinforcing shall be held securely in position with standard accessories in conformance with ACI 315 during placement of concrete.
Epoxy adhesive for fastening bolts, rebar or dowels in concrete shall be Hilti Hit Hy 200 R or A or equal.
- Masonry:
Concrete Masonry Unit ASTM C90, f'm = 1500 psi
Mortar ASTM C270, Type "S"
Grout ASTM C476
All grout shall be a shrinkage compensating pre-mixed type consisting of non-metallic aggregate with a minimum compressive strength of 3000 psi at 28 days.
Masonry reinforcing:
Laps (Typical uon.) 48 bar diameter
Horizontal reinforcing ASTM A-951, 9 ga, min. ladder type at 16" on center
Brick ties & masonry anchors Dur-O-Wall or approved equal
Temporary shoring for all exterior masonry walls shall remain in place and connected eliminating cantilever action of the walls until final connections are completed.

DATE	DATE	DATE	DATE	DATE

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MASTER SITE WALL PLAN

DATE 7-12-2023
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CHKD. BY
JOB NO.



SHT. LSS-2